

National Grid SA-COA **PRODUCTION FILE**

Contractor : ABB Contracting Co.

Project : SS 8709- 132/13.8kV in Alkharj City

Contract No : 11131113/00

Substation : 8709

**Subject : 132Kv Busbar Protection Set-1 (+BBP1-2)
Relay Panel-2**

ABB



POWER SYSTEMS NETWORK MANAGEMENT
PROTECTION AND SUBSTATION AUTOMATION SYSTEMS
WBS NO: S-13656

ABB AUTOMATION COMPANY LTD.
414, AL-KHARJ ROAD
SECOND INDUSTRIAL CITY
RIYADH-11383 K.S.A

CONTRACTOR : ABB Contracting Company
CLIENT : National GridSA
PROJECT : CONSTRUCTION OF NEW 132/13.8kV SS 8709 IN AL-KHARJ CITY
SUBSTATION : S/S 8709
CONTRACT NO. : 11131113/00
TITLE : Assembly Drawing - +BBP1-2
[132KV BUSBAR PROTECTION MAIN-1 BAY UNIT PANEL]

AS-BUILT BY _____ DATE _____ CONTRACT NO. **11131113/00** JOB ORDER NO. **S-13656**

01	13 49	FACTORY ASBUILT	DRAWN BY RIZ CHECKED BY KVR
00	13 04	FOR APPROVAL	DATE STARTED 24.01.2013 DATE COMPLETED _____
REV. NO.	DATE	DESCRIPTION	OPRG. DEPT. CTPD ENG. DEPT. AUT-PSAC

COVER SHEET

132KV BUSBAR PROTN.MAIN-1 BU PANEL +BBP1-2
S/S 8709 - 132/13.8KV IN AL-KHARJ CITY
RIYADH SAUDI ARABIA

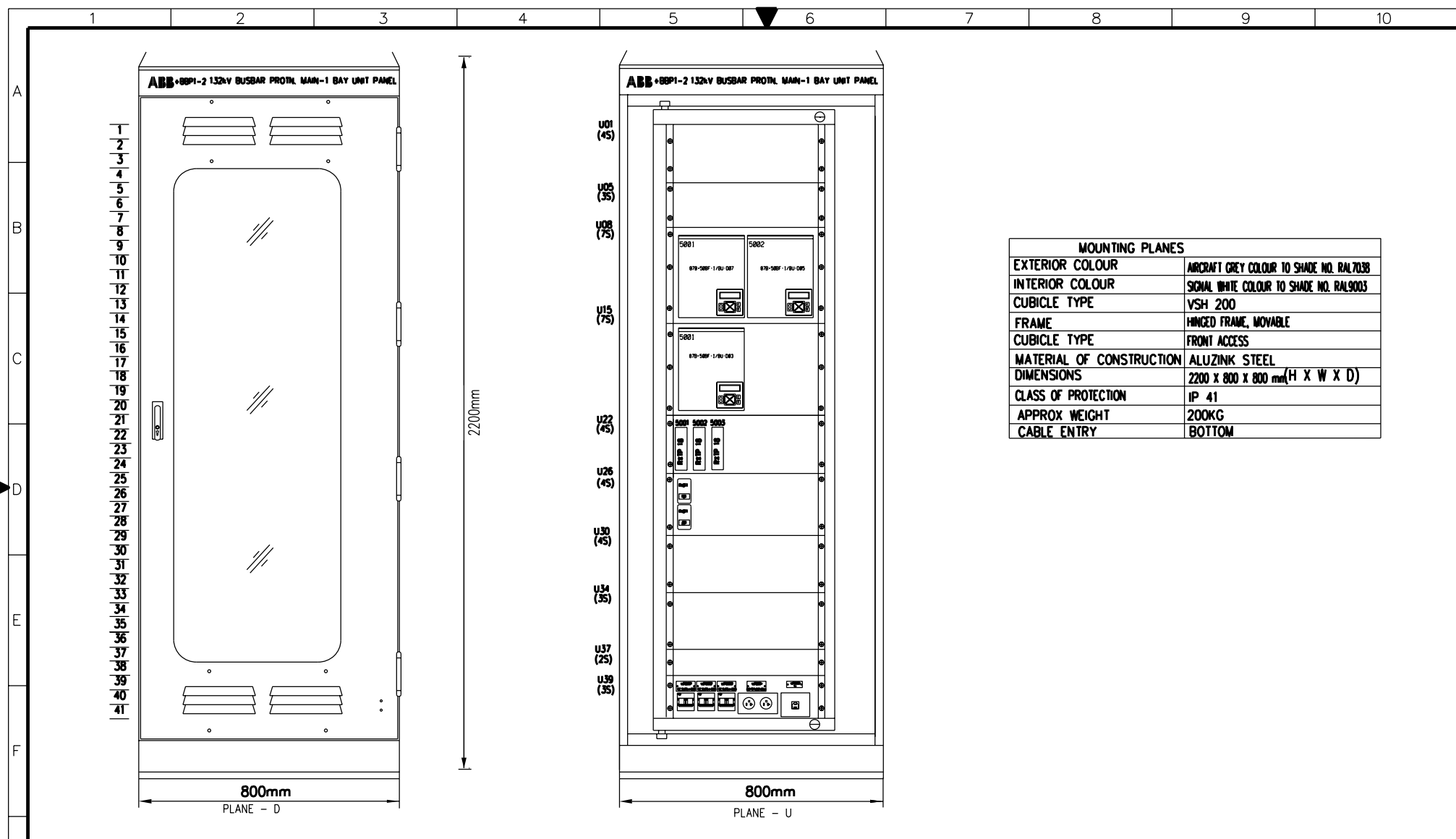
الشركة الوطنية لنقل الكهرباء



INDEX	PLANT NO.	DRAWING NUMBER	SHEET NO.	REV. NO.
-	C421	CD-322992	SHT CONT.	01
			G00 G01	

NG/D2-D (2012/01)

DMS VECTOR NGD200



MOUNTING PLANES	
EXTERIOR COLOUR	AIRCRAFT GREY COLOUR TO SHADE NO. RAL7038
INTERIOR COLOUR	SIGNAL WHITE COLOUR TO SHADE NO. RAL9003
CUBICLE TYPE	VSH 200
FRAME	HINGED FRAME, MOVABLE
CUBICLE TYPE	FRONT ACCESS
MATERIAL OF CONSTRUCTION	ALUZINK STEEL
DIMENSIONS	2200 x 800 x 800 mm (H X W X D)
CLASS OF PROTECTION	IP 41
APPROX WEIGHT	200KG
CABLE ENTRY	BOTTOM

AS-BUILT BY _____ DATE _____		CONTRACT NO. 11131113/00	JOB ORDER NO. S-13656	ASSEMBLY DRAWING		الشركة الوطنية لنقل الكهرباء		نقل الكهرباء	
DRAWN BY RIZ CHECKED BY KVR		DATE STARTED 24.01.2013 DATE COMPLETED _____		132KV BUSBAR PROTIN. MAIN-1 BU PANEL +BBP1-2		INDEX	PLANT NO.	DRAWING NUMBER	SHEET NO.
DATE STARTED 24.01.2013 DATE COMPLETED _____		DATE COMPLETED _____		S/S 8709 - 132/13.8KV IN AL-KHARJ CITY		-	C421	CD-322992	01
PRG. DEPT. CTPD ENG. DEPT. AUT-PSAC		RIYADH		SAUDI ARABIA		National Grid sa		01	
REV. NO.	DATE	DESCRIPTION		OPRG. DEPT. CTPD ENG. DEPT. AUT-PSAC		SHT		CONT.	
01	13 49	FACTORY ASBUILT		DATE STARTED 24.01.2013 DATE COMPLETED _____		001		002	
00	13 04	FOR APPROVAL		DATE STARTED 24.01.2013 DATE COMPLETED _____		001		002	

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C										
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G										

TOP VIEW FOR EARTHING BAR

U PLANE TOP LABEL

U PLANE BOTTOM LABEL

MANUFACTURING LABEL

ABB Automation Co.Ltd.

PROJECT : National Grid SA S/S 8709

ORDER REFERENCE : 2875 RF S13656

YEAR OF MANUFACTURE: 2013

PANEL NO. : +BBP1.2

DRAWING NO. : S13656-CD-322993

MADE IN THE KINGDOM OF SAUDI ARABIA

AS-BUILT BY _____ DATE _____		CONTRACT NO. 11131113/00		JOB ORDER NO. S-13656		ASSEMBLY DRAWING		الشركة الوطنية لنقل الكهرباء		نقل الكهرباء	
01 13 49		FACTORY ASBUILT		DRAWN BY RIZ CHECKED BY KVR		132KV BUSBAR PROTN.MAIN-1 BU PANEL +BBP1-2		National Grid sa			
00 13 04		FOR APPROVAL		DATE STARTED 24.01.2013 DATE COMPLETED _____		S/S 8709 - 132/13.8KV IN AL-KHARJ CITY		INDEX		PLANT NO.	
REV. NO.		DATE		DESCRIPTION		OPRG. DEPT. CTPD ENG. DEPT. AUT-PSAC		DRAWING NUMBER		SHEET NO.	
						RIYADH SAUDI ARABIA		CD-322992		01	



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WBS NO: S-13656

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SECOND INDUSTRIAL CITY
RIYADH-11383 K.S.A

CONTRACTOR : ABB Contracting Company
CLIENT : National Gridsa
PROJECT : CONSTRUCTION OF NEW 132/13.8kV SS 8709 IN AL-KHARJ CITY
SUBSTATION : S/S 8709
CONTRACT NO. : 11131113/00
TITLE : LIST OF APPARATUS - +BBP1-2
[132KV BUSBAR PROTECTION MAIN-1 BAY UNIT PANEL]

AS-BUILT BY _____ DATE _____ CONTRACT NO. **11131113/00** JOB ORDER NO. **S-13656**

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REV. NO.	DATE	DESCRIPTION	OPRG. DEPT. CTPD ENG. DEPT. AUT-PSAC

COVER SHEET

132KV BUSBAR PROT.N.MAIN-1 BU PANEL +BBP1-2
S/S 8709 - 132/13.8KV IN AL-KHARJ CITY
RIYADH SAUDI ARABIA

الشركة الوطنية لنقل الكهرباء



INDEX	PLANT NO.	DRAWING NUMBER	SHEET NO.	REV. NO.
-	C421	CD-322992	SHT CONT. L00 L01	01

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A	SR. NO.	GA REF.	SCH. REF.	DESCRIPTION		SHT.	QTY.	TYPE	MAKE	ORDERING INFORMATION
	32			MCB 2 POLE 6A. FOR DC SUPPLY WITH 2NC AUXILIARY CONTACT		216	3	S282 UC K6 S2-H02	ABB	GH S282 0164 R0317 GH S270 1916 R0003
		U39.5001	Q1	D07 - +BF1						
		U39.5002	Q2	D05 - +BF1						
B		U39.5003	Q3	D03 - +BF1						
	33	U39.5004	C01	CONVENIENCE OUTLET 10A, 127V AC		211	2	USM45 & USM45	EGRAND	74140 & 74180
			C02	CONVENIENCE OUTLET 10A, 220V AC						
	34		C1.C2	MINIATURE CIRCUIT BREAKER, 2 POLE, 10A FOR CONVENIENCE OUTLET WITH AUXILIARY SWITCH, 1NO + 1NC CONTACTS		211	2	S202P-K10 S2C-H11L	ABB	2CDS 252 001 R0427 GH S270 1917 R0001
C			C3	THERMOSTAT FOR SPACE HEATER. 5-60 C		211	1	SK 3110	RITTAL	SK3110
	35									
	36	U39.5005	TJ	TELEPHONE JACK 1GANG 4WIRE		211	1	EDF410	EDISON	EDF410
D			C7	ON/OFF SWITCH FOR SPACE HEATER		211	1	M2SS1-10B MCBR-10	ABB	1SFA 611 200 R1006 1SFA 611 605 R1101
	37									
	38		DS	DOOR SWITCH FOR CONTROL OF CUBICLE INTERNAL ILLUMINATION LAMP		211	1	LS30P	ABB	1SBV 010213R 1202
E			IL	INTERNAL ILLUMINATION CUBICLE LAMP SUITABLE FOR 127V AC, 60Hz SUPPLY		211	1	T4	SUNON	SP-20W
	39									
F			SH	SPACE HEATER, 150W, 120V, 60Hz		211	1	MICAA	GRUPPO	1FZEK006C001
	40									

AS-BUILT BY _____ DATE _____		CONTRACT NO. 11131113/00		JOB ORDER NO. S-13656		LIST OF APPARATUS		الشركة الوطنية لنقل الكهرباء		نقل الكهرباء National Grid sa	
01	13 49	FACTORY ASBUILT		DRAWN BY RIZ CHECKED BY KVR		132KV BUSBAR PROTN.MAIN-1 BU PANEL +BBP1-2		INDEX		PLANT NO.	DRAWING NUMBER
00	13 04	FOR APPROVAL		DATE STARTED 24.01.2013 DATE COMPLETED _____		S/S 8709 - 132/13.8KV IN AL-KHARJ CITY		-		C421	CD-322992
REV. NO.	DATE	DESCRIPTION		OPRG. DEPT. CTPD ENG. DEPT. AUT-PSAC		RIYADH SAUDI ARABIA		SHEET NO.		REV. NO.	
								SHT CONT.			
								L03		L04 01	

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A	SR. NO.	GA REF.	SCH. REF.	D E S C R I P T I O N		SHT.	QTY.	TYPE	MAKE	ORDERING INFORMATION
	41		1X1,2X1,3X1	BLOT CONNECTING TERMINAL BLOCKS DISCONNECTIBLE FOR CT CIRCUITS		301	30	OTTA 6T P/P	PHOENIX	0790462
			X3	SPRING LOADED TERMINAL BLOCKS DISCONNECTIBLE FOR AC CIRCUITS		301	10	D6/8.ST1.RS	ENTRELEC	1SNA 115 831 R0400
			X4	SPRING LOADED TERMINAL BLOCK FOR DC EXT. CIRCUITS		301	10	D6/8.ST1.RS	ENTRELEC	1SNA 115 831 R0400
			1X51,2X51,3X51	SPRING LOADED TERMINAL BLOCK FOR DC PROT.N. CIRCUITS(EACH40)		301	120	M6/8.RS	ENTRELEC	1SNA 115 685 R1200
			X6	SPRING LOADED TERMINAL BLOCK FOR ALM CIRCUITS		301	5	M6/8.RS	ENTRELEC	1SNA 115 685 R1200
			X61	KNIFE TYPE TERMINAL BLOCKS DISCONNECTIBLE FOR STN.-COM ALARM CIRCUITS		301	10	M6/8.SNB	ENTRELEC	1SNA 115 688 R2500
			XTJ	SPRING LOADED TERMINAL BLOCK FOR TELEPHONE JACK		301	5	M6/8.RS	ENTRELEC	1SNA 115 685 R1200
			XSH	SPRING LOADED TERMINAL BLOCKS FOR SPACE HEATER		301	3	M6/8.RS	ENTRELEC	1SNA 115 685 R1200
	B									
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AS-BUILT BY _____ DATE _____		CONTRACT NO. 11131113/00		JOB ORDER NO. S-13656		LIST OF APPARATUS		الشركة الوطنية لنقل الكهرباء		نقل الكهرباء National Grid sa	
01	13 49	FACTORY ASBUILT		DRAWN BY RIZ CHECKED BY KVR		132KV BUSBAR PROTN.MAIN-1 BU PANEL +B8P1-2		INDEX	PLANT NO.	DRAWING NUMBER	SHEET NO.
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REV. NO.	DATE	DESCRIPTION		OPRG. DEPT. CTPD ENG. DEPT. AUT-PSAC		RIYADH SAUDI ARABIA				SHT CONT.	
										L04 L05	
										01	

NG/D2-D (2012/01)
 DMS VECTOR NGD200

LABEL REF.	LABEL ENGRAVING	MATERIALS	ENGRAVING	LABEL SIZE	LETTER SIZE
U08.5001	U08.5001 878+508F-1/BU-D07	TRAFOLITE	BLACK LETTERS ON WHITE BACKGROUND	50X15mm	4mm
U08.5002	U08.5002 878+508F-1/BU-D05	TRAFOLITE	BLACK LETTERS ON WHITE BACKGROUND	50X15mm	4mm
U15.5001	U15.5001 878+508F-1/BU-D03	TRAFOLITE	BLACK LETTERS ON WHITE BACKGROUND	50X15mm	4mm
U22.5001	U22.5001 IS-1	ALUMINUM PAPER FOIL	BLACK LETTERS	50X10mm	3mm
U22.5002	U22.5002 IS-2	ALUMINUM PAPER FOIL	BLACK LETTERS	50X10mm	3mm
U22.5003	U22.5003 IS-3	ALUMINUM PAPER FOIL	BLACK LETTERS	50X10mm	3mm
U26.101	U26.101 748F-1/D07	ALUMINUM PAPER FOIL	BLACK LETTERS	50X10mm	3mm
U26.301	U26.301 748F-1/D03	ALUMINUM PAPER FOIL	BLACK LETTERS	50X10mm	3mm
U37.5001	U37.5001 DC SUPPLY MCB FOR D07	TRAFOLITE	BLACK LETTERS ON WHITE BACKGROUND	50X15mm	4mm
U37.5002	U37.5002 DC SUPPLY MCB FOR D05	TRAFOLITE	BLACK LETTERS ON WHITE BACKGROUND	50X15mm	4mm
U37.5003	U37.5003 DC SUPPLY MCB FOR D03	TRAFOLITE	BLACK LETTERS ON WHITE BACKGROUND	50X15mm	4mm
U37.5004	U37.5004 C01-127V.C02-220V	TRAFOLITE	BLACK LETTERS ON WHITE BACKGROUND	50X15mm	4mm
U37.5005	U37.5005 UJ	TRAFOLITE	BLACK LETTERS ON WHITE BACKGROUND	50X15mm	4mm

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LIST OF APPARATUS

132KV BUSBAR PROTN.MAIN-1 BU PANEL +8BP1-2
S/S 8709 - 132/13.8KV IN AL-KHARJ CITY
RIYADH SAUDI ARABIA

الشركة الوطنية لنقل الكهرباء



INDEX	PLANT NO.	DRAWING NUMBER	SHEET NO.	REV. NO.
-	C421	CD-322992	L06 L07	01

NG/D2-D (2012/01)

DMS

VECTOR

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CONTRACTOR : ABB Contracting Company
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PROJECT : CONSTRUCTION OF NEW 132/13.8kV SS 8709 IN AL-KHARJ CITY
SUBSTATION : S/S 8709
CONTRACT NO. : 11131113/00
TITLE : SCHEMATICS DRAWINGS - +BBP1-2
[132KV BUSBAR PROTECTION MAIN-1 BAY UNIT PANEL]

AS-BUILT BY _____ DATE _____ CONTRACT NO. **11131113/00** JOB ORDER NO. **S-13656**

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COVER SHEET

132KV BUSBAR PROTN.MAIN-1 BU PANEL +BBP1-2
S/S 8709 - 132/13.8KV IN AL-KHARJ CITY
RIYADH SAUDI ARABIA

الشركة الوطنية لنقل الكهرباء



نقل الكهرباء
National Grid sa

INDEX	PLANT NO.	DRAWING NUMBER	SHEET NO.	REV. NO.
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NG/D2-D (2012/01)

DMS

VECTOR

NGD200

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LIGHTING, HEATER & SOCKET ALARM CKT.</td><td>212</td><td>X</td><td>X</td><td></td></tr> <tr><td>DC SUPPLY DISTRIBUTION</td><td>216</td><td>X</td><td>X</td><td></td></tr> <tr><td>CURRENT TRANSFORMER INPUTS -87B+50BF-1/BU-D07</td><td>221</td><td>X</td><td>X</td><td></td></tr> <tr><td>CURRENT TRANSFORMER INPUTS -87B+50BF-1/BU-D05</td><td>222</td><td>X</td><td>X</td><td></td></tr> <tr><td>CURRENT TRANSFORMER INPUTS -87B+50BF-1/BU-D03</td><td>223</td><td>X</td><td>X</td><td></td></tr> <tr><td>87B+50BF-1/BU-D07 PROTN.RELAY-BINARY INPUTS</td><td>231</td><td>X</td><td>X</td><td></td></tr> <tr><td>87B+50BF-1/BU-D07 PROTN.RELAY-BINARY INPUTS</td><td>232</td><td>X</td><td>X</td><td></td></tr> <tr><td>CBF-1 & BUSBAR PROTN-1 TRIP RELAY CIRCUIT-D07</td><td>233</td><td>X</td><td>X</td><td></td></tr> <tr><td>87B+50BF-1/BU-D05 PROTN.RELAY-BINARY INPUTS</td><td>234</td><td>X</td><td>X</td><td></td></tr> <tr><td>87B+50BF-1/BU-D05 PROTN.RELAY-BINARY INPUTS</td><td>235</td><td>X</td><td>X</td><td></td></tr> <tr><td>CBF-1 & BUSBAR PROTN-1 TRIP RELAY CIRCUIT-D05</td><td>236</td><td>X</td><td>X</td><td></td></tr> <tr><td>87B+50BF-1/BU-D03 PROTN.RELAY-BINARY INPUTS</td><td>237</td><td>X</td><td>X</td><td></td></tr> <tr><td>87B+50BF-1/BU-D03 PROTN.RELAY-BINARY INPUTS</td><td>238</td><td>X</td><td>X</td><td></td></tr> <tr><td>CBF-1 & BUSBAR PROTN-1 TRIP RELAY CIRCUIT-D03</td><td>239</td><td>X</td><td>X</td><td></td></tr> <tr><td> </td><td></td><td></td><td></td><td></td></tr> <tr><td> </td><td></td><td></td><td></td><td></td></tr> </table>					CONTENTS	ABB SHT.NO.	REV.00	REV.01	REV.02	COVER SHEET	000	X	X		CONTENTS SHEET	001	X	X		GRAPHICAL SYMBOLS FOR DIAGRAMS	011	X	X		GRAPHICAL SYMBOLS FOR DIAGRAMS	012	X	X		COMMON LEGEND	013	X	X		FERRULE AND WIRING DETAILS	014	X	X		DRAWING REFERENCES	015	X	X		DRAWING REFERENCES	016	X	X		PRIMARY SYSTEM	051-056	X	X		AC SUPPLY FOR ILLUMINATION & POWER SOCKET	211	X	X		CUB. LIGHTING, HEATER & SOCKET ALARM CKT.	212	X	X		DC SUPPLY DISTRIBUTION	216	X	X		CURRENT TRANSFORMER INPUTS -87B+50BF-1/BU-D07	221	X	X		CURRENT TRANSFORMER INPUTS -87B+50BF-1/BU-D05	222	X	X		CURRENT TRANSFORMER INPUTS -87B+50BF-1/BU-D03	223	X	X		87B+50BF-1/BU-D07 PROTN.RELAY-BINARY INPUTS	231	X	X		87B+50BF-1/BU-D07 PROTN.RELAY-BINARY INPUTS	232	X	X		CBF-1 & BUSBAR PROTN-1 TRIP RELAY CIRCUIT-D07	233	X	X		87B+50BF-1/BU-D05 PROTN.RELAY-BINARY INPUTS	234	X	X		87B+50BF-1/BU-D05 PROTN.RELAY-BINARY INPUTS	235	X	X		CBF-1 & BUSBAR PROTN-1 TRIP RELAY CIRCUIT-D05	236	X	X		87B+50BF-1/BU-D03 PROTN.RELAY-BINARY INPUTS	237	X	X		87B+50BF-1/BU-D03 PROTN.RELAY-BINARY INPUTS	238	X	X		CBF-1 & BUSBAR PROTN-1 TRIP RELAY CIRCUIT-D03	239	X	X												<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:30%;">CONTENTS</th> <th style="width:10%;">ABB SHT.NO.</th> <th style="width:10%;">REV.00</th> <th style="width:10%;">REV.01</th> <th style="width:10%;">REV.02</th> </tr> <tr><td>COMMON ALARM CIRCUITS</td><td>292</td><td>X</td><td>X</td><td></td></tr> <tr><td>BLOCK REFERENCE 87B+50BF-1/BU-D07</td><td>293</td><td>X</td><td>X</td><td></td></tr> <tr><td>BLOCK REFERENCE 87B+50BF-1/BU-D07</td><td>294</td><td>X</td><td>X</td><td></td></tr> <tr><td>BLOCK REFERENCE 87B+50BF-1/BU-D05</td><td>295</td><td>X</td><td>X</td><td></td></tr> <tr><td>BLOCK REFERENCE 87B+50BF-1/BU-D05</td><td>296</td><td>X</td><td>X</td><td></td></tr> <tr><td>BLOCK REFERENCE 87B+50BF-1/BU-D03</td><td>297</td><td>X</td><td>X</td><td></td></tr> <tr><td>BLOCK REFERENCE 87B+50BF-1/BU-D03</td><td>298</td><td>X</td><td>X</td><td></td></tr> <tr><td>TERMINAL BLOCKS REFERENCE</td><td>301</td><td>X</td><td>X</td><td></td></tr> <tr><td> </td><td></td><td></td><td></td><td></td></tr> <tr><td> </td><td></td><td></td><td></td><td></td></tr> <tr><td> </td><td></td><td></td><td></td><td></td></tr> <tr><td> </td><td></td><td></td><td></td><td></td></tr> <tr><td> </td><td></td><td></td><td></td><td></td></tr> <tr><td> </td><td></td><td></td><td></td><td></td></tr> <tr><td> </td><td></td><td></td><td></td><td></td></tr> <tr><td> </td><td></td><td></td><td></td><td></td></tr> <tr><td> </td><td></td><td></td><td></td><td></td></tr> <tr><td> </td><td></td><td></td><td></td><td></td></tr> <tr><td> </td><td></td><td></td><td></td><td></td></tr> <tr><td> </td><td></td><td></td><td></td><td></td></tr> </table>					CONTENTS	ABB SHT.NO.	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SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	FUSE / LINK		WATTMETER		ELEMENT WITH NEGATED INHIBITING INPUT
	FUSE WITH THE SUPPLY SIDE INDICATED		VARMETER		ELEMENT WITH INPUT WHICH DOES NOT CARRY ANY LOGIC INFORMATION
	SINGLE-PHASE TRANSFORMER WITH TWO SEPARATE WINDINGS (TWO ALTERNATIVE FORMS)		POWER FACTOR METER		ELEMENT WITH POSTPONED OUTPUT
			POSITION INDICATOR		AND-ELEMENT WITH TWO INPUTS
	SINGLE-PHASE TRANSFORMER WITH FERRO MAGNETIC CORE		SYNCHROSCOPE		OR-ELEMENT WITH TWO INPUTS
	SINGLE-PHASE VOLTAGE TRANSFORMER (MULTI-LINE AND SINGLE-LINE REPRESENTATION)		RECORDING VOLTMETER		LOGIC THRESHOLD ELEMENT WITH FOUR INPUTS AND THRESHOLD VALUE 2
			RECORDING WATTMETER		ELEMENT WITH THREE INPUTS FOR "2 AND ONLY 2"
	CURRENT TRANSFORMER (MULTI-LINE AND SINGLE-LINE REPRESENTATION)		HOUR METER		EXCLUSIVE OR-ELEMENT WITH THREE INPUTS
	CURRENT TRANSFORMER WITH TWO CORES (MULTI-LINE AND SINGLE-LINE REPRESENTATION)		WATT-HOUR METER		LOGIC IDENTITY ELEMENT WITH THREE INPUTS
			WATT-HOUR METER FOR ENERGY FROM A BUSBAR SYSTEM		MAJORITY ELEMENT WITH THREE INPUTS
	CURRENT TRANSFORMER WITH TWO SECONDARY WINDINGS ON ONE CORE (MULTI-LINE AND SINGLE-LINE REPRESENTATION)		ELEMENT WITH STATIC INPUT		NEGATOR
	FILTER		ELEMENT WITH STATIC NEGATED INPUT		NAND ELEMENT WITH TWO INPUTS
	HIGH-PASS FILTER		ELEMENT WITH STATIC NEGATED OUTPUT		NOR ELEMENT WITH TWO INPUTS
	BAND-PASS FILTER		ELEMENT WITH DYNAMIC INPUT		BISTABLE ELEMENT
	VOLTMETER		ELEMENT WITH DYNAMIC NEGATED INPUT		
	AMMETER		ELEMENT WITH INHIBITING INPUT		

AS-BUILT BY _____ DATE _____			CONTRACT NO. 11131113/00		JOB ORDER NO. S-13656		GRAPHICAL SYMBOLS FOR DIAGRAMS			الشركة الوطنية لنقل الكهرباء			
							132KV BUSBAR PROTN.MAIN-1 BU PANEL +BBPI-2			SHEET NO.		REV. NO.	
01 13 49			FACTORY ASBUILT		DRAWN BY RIZ CHECKED BY KVR		S/S 8709 - 132/13.8KV IN AL-KHARJ CITY			INDEX		PLANT NO.	
00 13 04			FOR APPROVAL		DATE STARTED 24.01.2013 DATE COMPLETED _____		RIYADH SAUDI ARABIA			DRAWING NUMBER		- C421	
REV. NO.			DATE		DESCRIPTION		OPRG. DEPT. CTPD ENG. DEPT. AUT-PSAC			CD-322993		012 013	
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LEGENDS

±R1 ±R2 ±R3 ±IT FL BB RS± BB CBF±/CBF± R CR ECC LOCAL REMOTE ON OFF A T S CS CT LS LT LC LO RO OP RE	DC SUPPLY - MAIN PROTECTION DC SUPPLY - SECONDARY PROTECTION DC SUPPLY - BACK UP PROTECTION DC SUPPLY - INTER TRIP DC SUPPLY - FLASHING CIRCUIT DC SUPPLY - BUS BAR - PROTECTION RESET DC SUPPLY - CBF PROTECTION RESET BUS - ALARM SYSTEM CONTROL ROOM ENERGY CONTROL CENTRE THE LOCATION OF CONTROLLED DEVICE ANY OTHER LOCATION NOT LOCAL CB NORMALLY OPEN AUXILIARY CONTACT CB NORMALLY CLOSED AUXILIARY CONTACT COMMON TEST POSITION SERVICE POSITION CLOSE IN SERVICE POSITION CLOSE IN TEST POSITION LOCAL SERVICE LOCAL TEST LOCAL CLOSE LOCAL OPEN REMOTE OPEN OPERATE RESET
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NOTES

LABELS

WHITE LABEL WITH BLACK LETTERING WILL BE PROVIDED FOR ALL MOUNTED APPARATUS EQUIPMENT IDENTIFICATION AND FUNCTION REFERENCE LABEL WILL BE PROVIDED FOR FRONT MOUNTED EQUIPMENTS OF THE PANEL AND EQUIPMENT IDENTIFICATION LABEL WILL BE PROVIDED FOR INTERNALLY MOUNTED EQUIPMENTS

WIRING

PVC INSULATED 600V GRADE
 2.5 SQ.mm. YELLOW COLOURED FOR CT CIRCUITS
 2.5 SQ.mm. RE COLOURED FOR VT CIRCUITS
 1.5 SQ.mm. GREY COLOURED FOR DC SUPPLY, SCADA AND CONTROL CIRCUITS
 2.5 SQ.mm. BLACK COLOURED FOR AVC AND AC CIRCUITS
 2.5 SQ.mm. YELLOW/GREEN COLOURED FOR EARTHING CONNECTIONS
 FOLLOWING MARKERS SHALL BE PROVIDED ON FOLLOWING WIRES:
 + SIGN FOR DC + WIRE
 - SIGN FOR DC - WIRE

LUGS

A. CT CIRCUITS- RING TYPE
 B. OTHER CIRCUITS - SPADE TYPE

FERULLING

YELLO TUBE 3.2 mm FOR 1.5SQ mm WIRES AND 4.2 FOR 2.5 SQ mm WIRES
 (AS PER 31 - TMSS-1, RE.0)

AS-BUILT BY _____ DATE _____ CONTRACT NO. **11131113/00** JOB ORDER NO. **S-13656**

01	13 49	FACTORY ASBUILT	DRAWN BY RIZ CHECKED BY KVR
00	13 04	FOR APPROVAL	DATE STARTED 24.01.2013 DATE COMPLETED _____
REV. NO.	DATE	DESCRIPTION	OPRG. DEPT. CTPD ENG. DEPT. AUT-PSAC

COMMON LEGEND

132KV BUSBAR PROT.N.MAIN-1 BU PANEL +BBP1-2

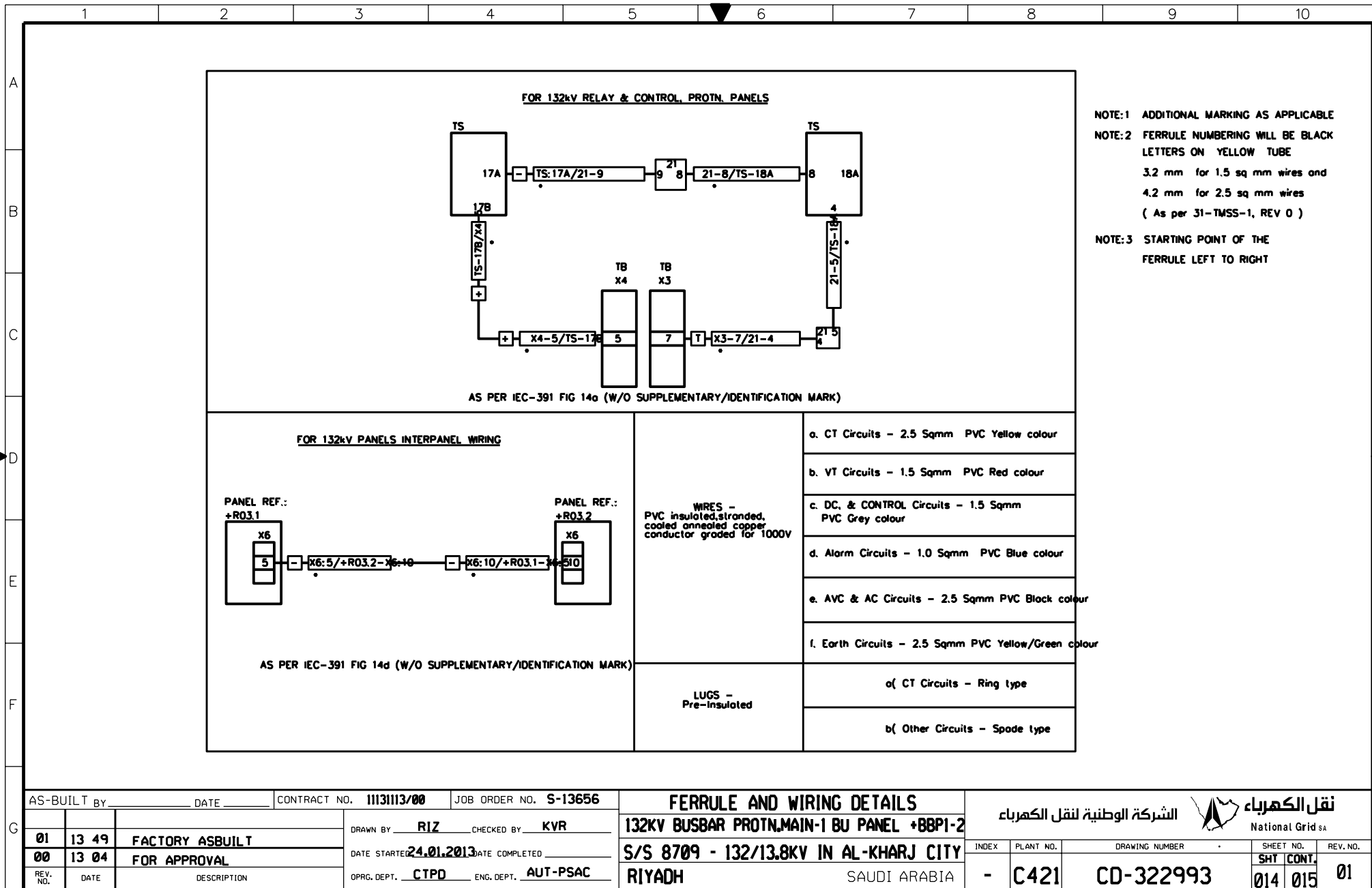
S/S 8709 - 132/13.8KV IN AL-KHARJ CITY

RIYADH SAUDI ARABIA

الشركة الوطنية لنقل الكهرباء

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INDEX	PLANT NO.	DRAWING NUMBER	SHEET NO.	REV. NO.
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G	<table><tr><td colspan="3">AS-BUILT BY _____ DATE _____</td><td colspan="2">CONTRACT NO. 11131113/00</td><td colspan="2">JOB ORDER NO. S-13656</td><td colspan="3">DRAWING REFERENCES</td><td colspan="2">الشركة الوطنية لنقل الكهرباء National Grid sa</td></tr><tr><td colspan="3">01 13 49 FACTORY ASBUILT</td><td colspan="2">DRAWN BY RIZ CHECKED BY KVR</td><td colspan="3">132KV BUSBAR PROTN.MAIN-1 BU PANEL +8BP1-2</td><td colspan="2">INDEX</td><td>PLANT NO.</td><td>DRAWING NUMBER</td><td>SHEET NO.</td><td>REV. NO.</td></tr><tr><td colspan="3">00 13 04 FOR APPROVAL</td><td colspan="2">DATE STARTED 24.01.2013 DATE COMPLETED _____</td><td colspan="3">S/S 8709 - 132/13.8KV IN AL-KHARJ CITY</td><td colspan="2"></td><td></td><td></td><td>SHT</td><td>CONT.</td></tr><tr><td colspan="3">REV. NO. DATE DESCRIPTION</td><td colspan="2">OPRG. DEPT. CTPD ENG. DEPT. AUT-PSAC</td><td colspan="3">RIYADH SAUDI ARABIA</td><td colspan="2">-</td><td>C421</td><td>CD-322993</td><td>016</td><td>051</td></tr><tr><td colspan="3"></td><td colspan="2"></td><td colspan="3"></td><td colspan="2"></td><td></td><td></td><td></td><td>01</td></tr></table>										AS-BUILT BY _____ DATE _____			CONTRACT NO. 11131113/00		JOB ORDER NO. S-13656		DRAWING REFERENCES			الشركة الوطنية لنقل الكهرباء National Grid sa		01 13 49 FACTORY ASBUILT			DRAWN BY RIZ CHECKED BY KVR		132KV BUSBAR PROTN.MAIN-1 BU PANEL +8BP1-2			INDEX		PLANT NO.	DRAWING NUMBER	SHEET NO.	REV. NO.	00 13 04 FOR APPROVAL			DATE STARTED 24.01.2013 DATE COMPLETED _____		S/S 8709 - 132/13.8KV IN AL-KHARJ CITY							SHT	CONT.	REV. NO. DATE DESCRIPTION			OPRG. DEPT. CTPD ENG. DEPT. AUT-PSAC		RIYADH SAUDI ARABIA			-		C421	CD-322993	016	051														01
AS-BUILT BY _____ DATE _____			CONTRACT NO. 11131113/00		JOB ORDER NO. S-13656		DRAWING REFERENCES			الشركة الوطنية لنقل الكهرباء National Grid sa																																																																				
01 13 49 FACTORY ASBUILT			DRAWN BY RIZ CHECKED BY KVR		132KV BUSBAR PROTN.MAIN-1 BU PANEL +8BP1-2			INDEX		PLANT NO.	DRAWING NUMBER	SHEET NO.	REV. NO.																																																																	
00 13 04 FOR APPROVAL			DATE STARTED 24.01.2013 DATE COMPLETED _____		S/S 8709 - 132/13.8KV IN AL-KHARJ CITY							SHT	CONT.																																																																	
REV. NO. DATE DESCRIPTION			OPRG. DEPT. CTPD ENG. DEPT. AUT-PSAC		RIYADH SAUDI ARABIA			-		C421	CD-322993	016	051																																																																	
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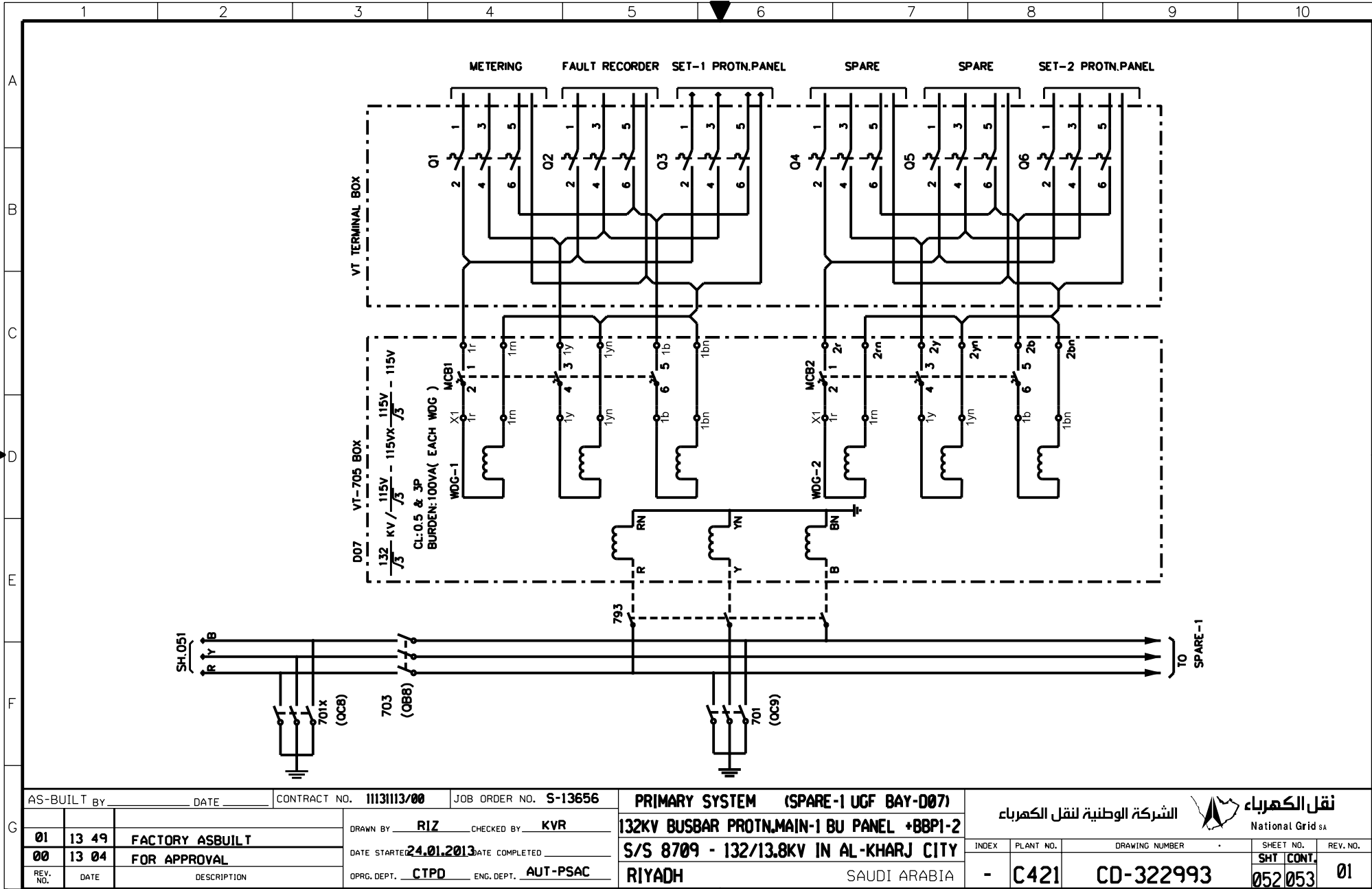
ABB

PROTECTION & SUBSTATION
AUTOMATION

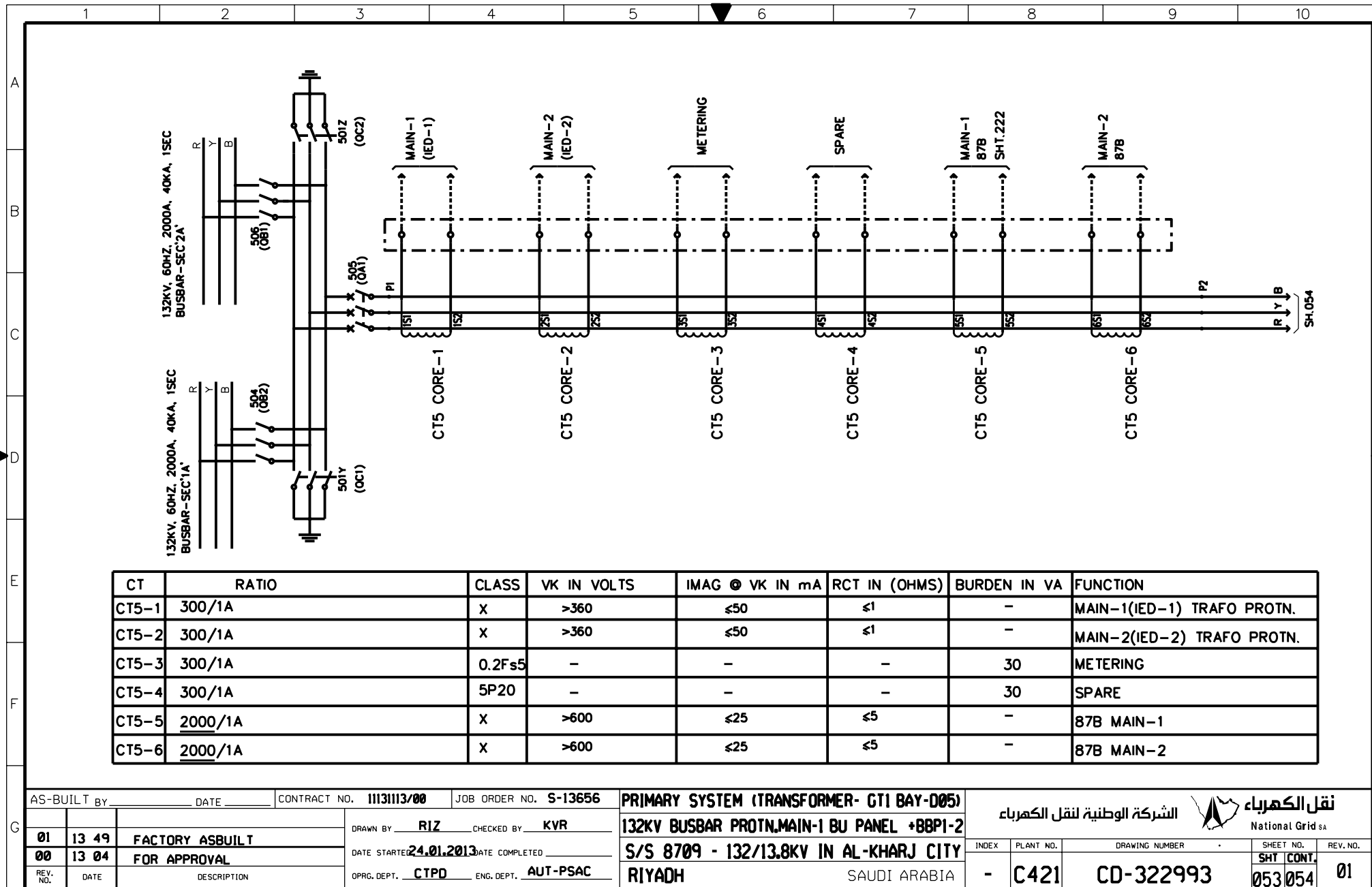
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	CD-322952	13.8KV Copocitor Bank-1 Protection Panel	+CBP-1
	CD-322954	13.8KV Copocitor Bank-2 Protection Panel	+CBP-2
	CD-322956	13.8KV Copocitor Bank-2 Protection Panel	+CBP-3
	CD-322958	13.8 KV ACCS PANEL	+ACCS
	CD-322962	13.8KV ACSE PANEL	+ACSE
	CD-322968	13.8KV Under Voltage Load Shedding Panel	+UVLS
	CD-322964	13.8KV Under Frequency Load Shedding Panel-1	+UFLS01
	CD-322966	13.8KV Under Frequency Load Shedding Panel-2	+UFLS02

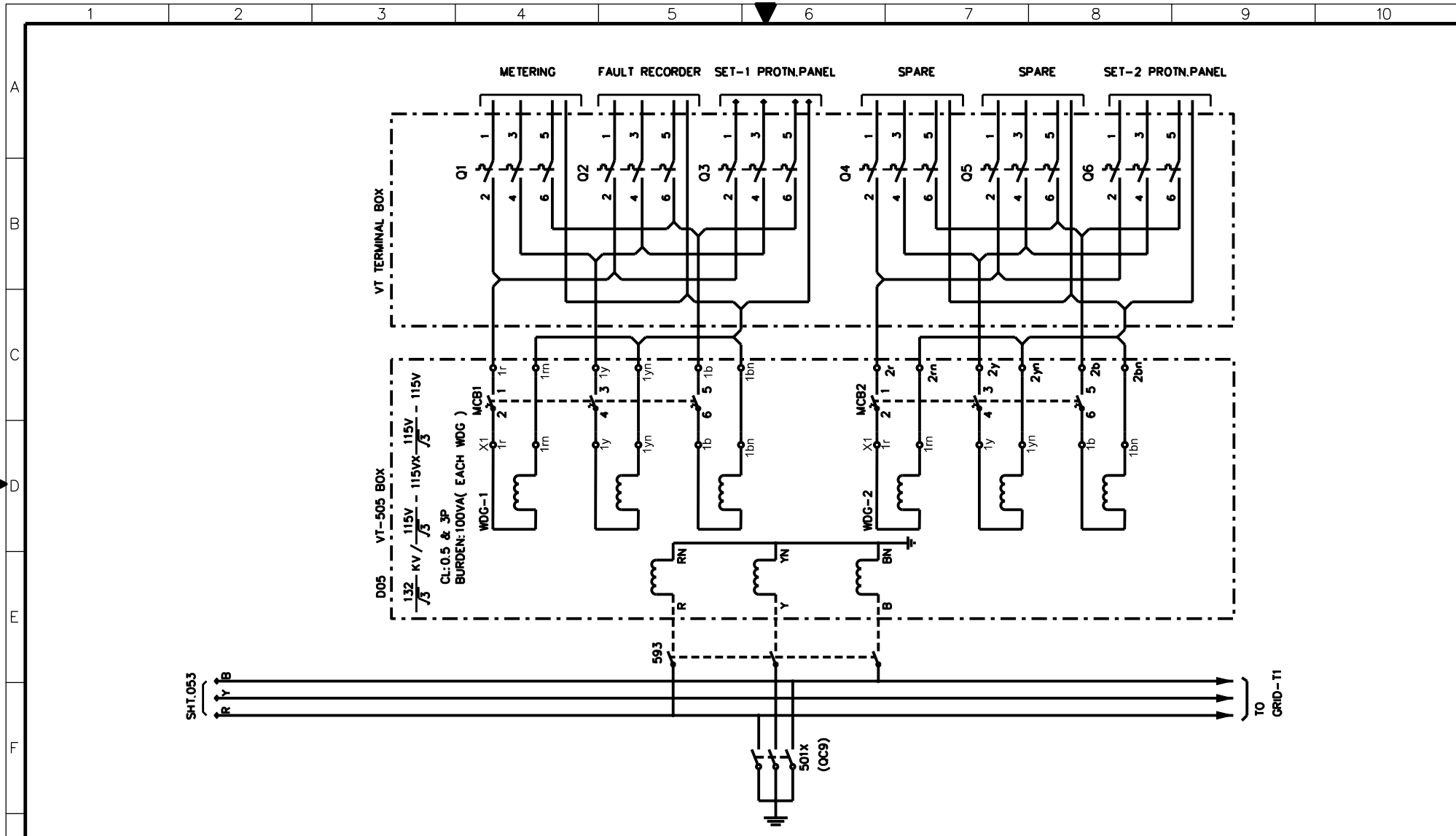
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DMS VECTOR NGD200



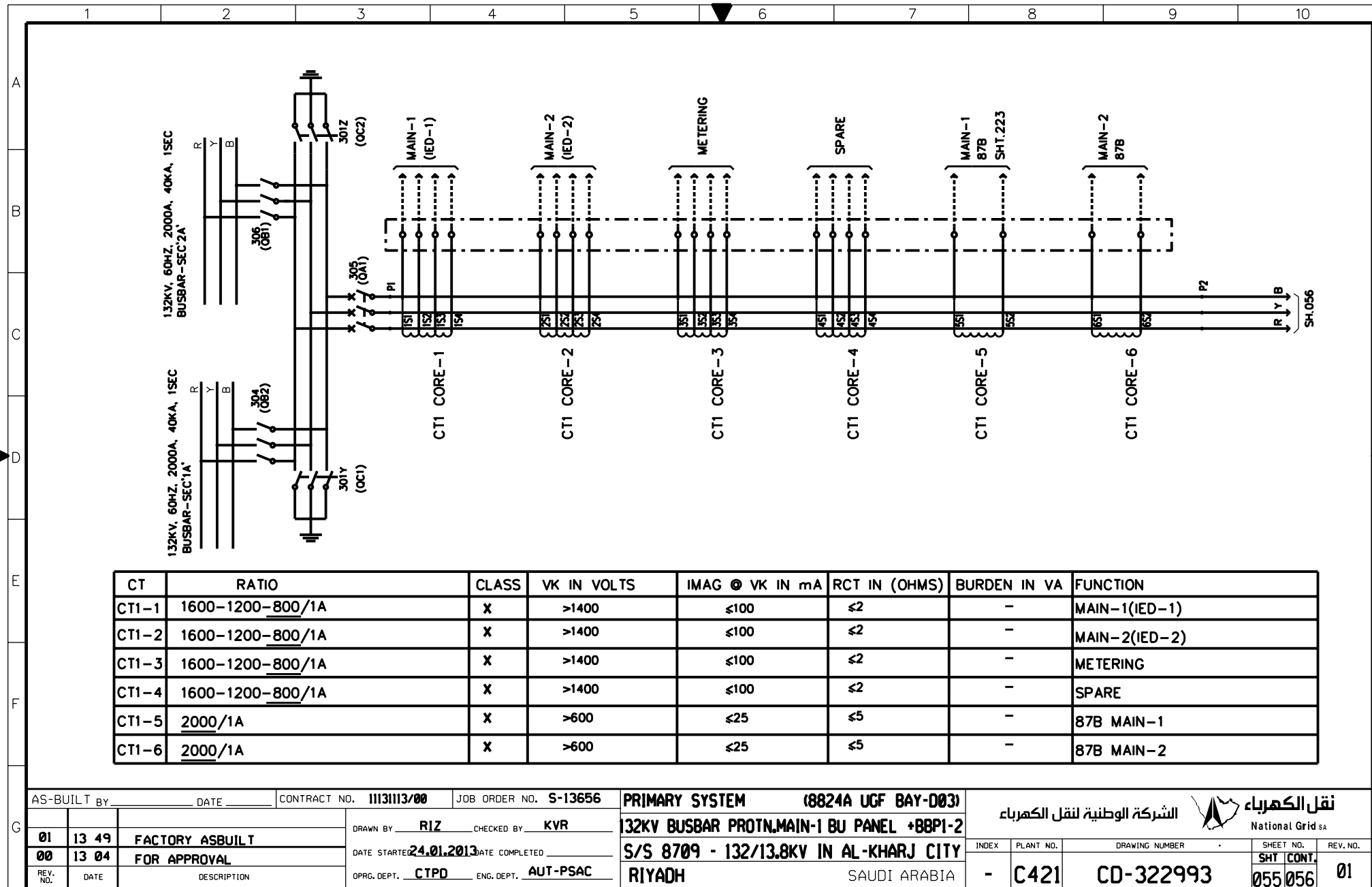
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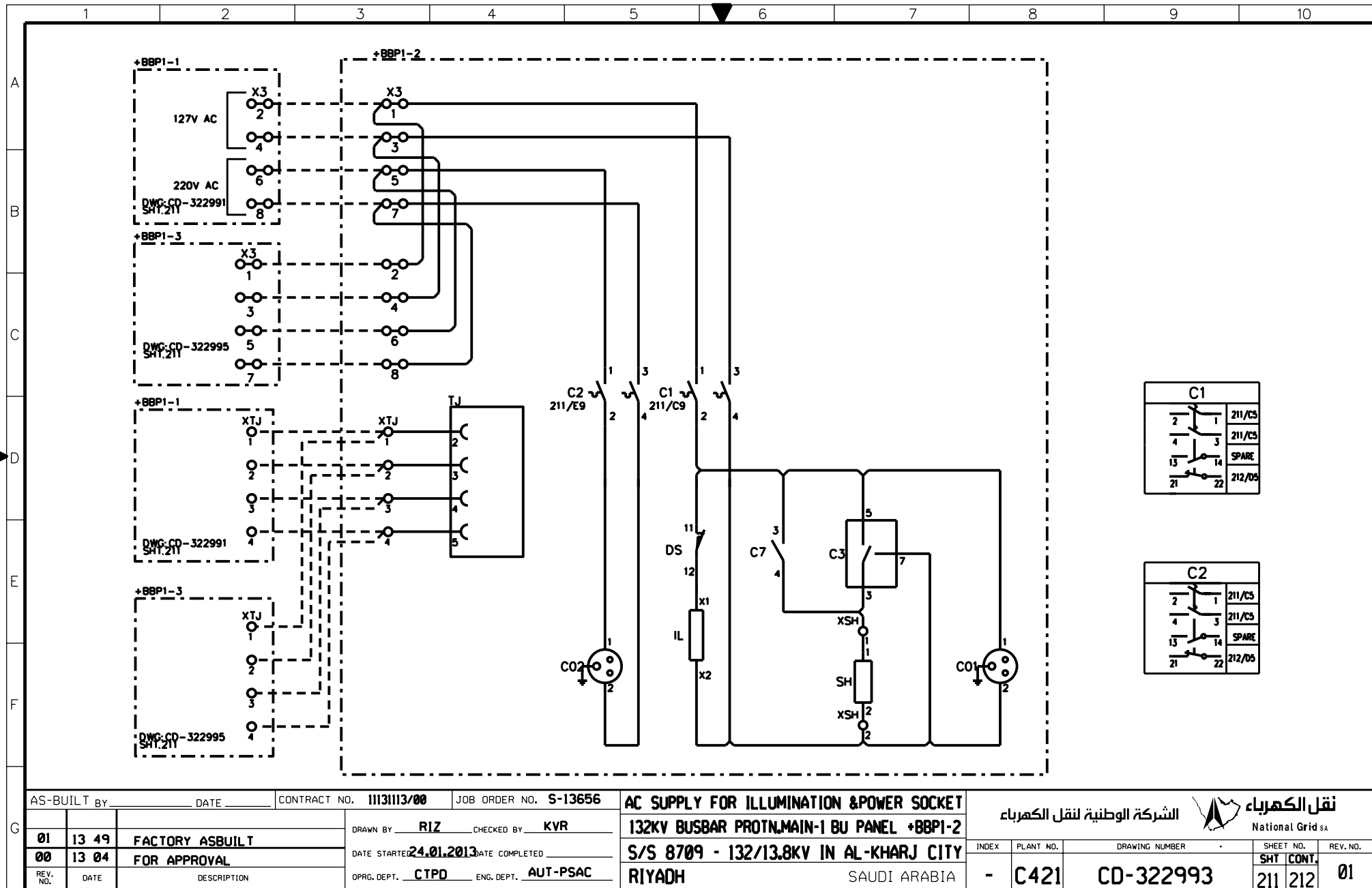


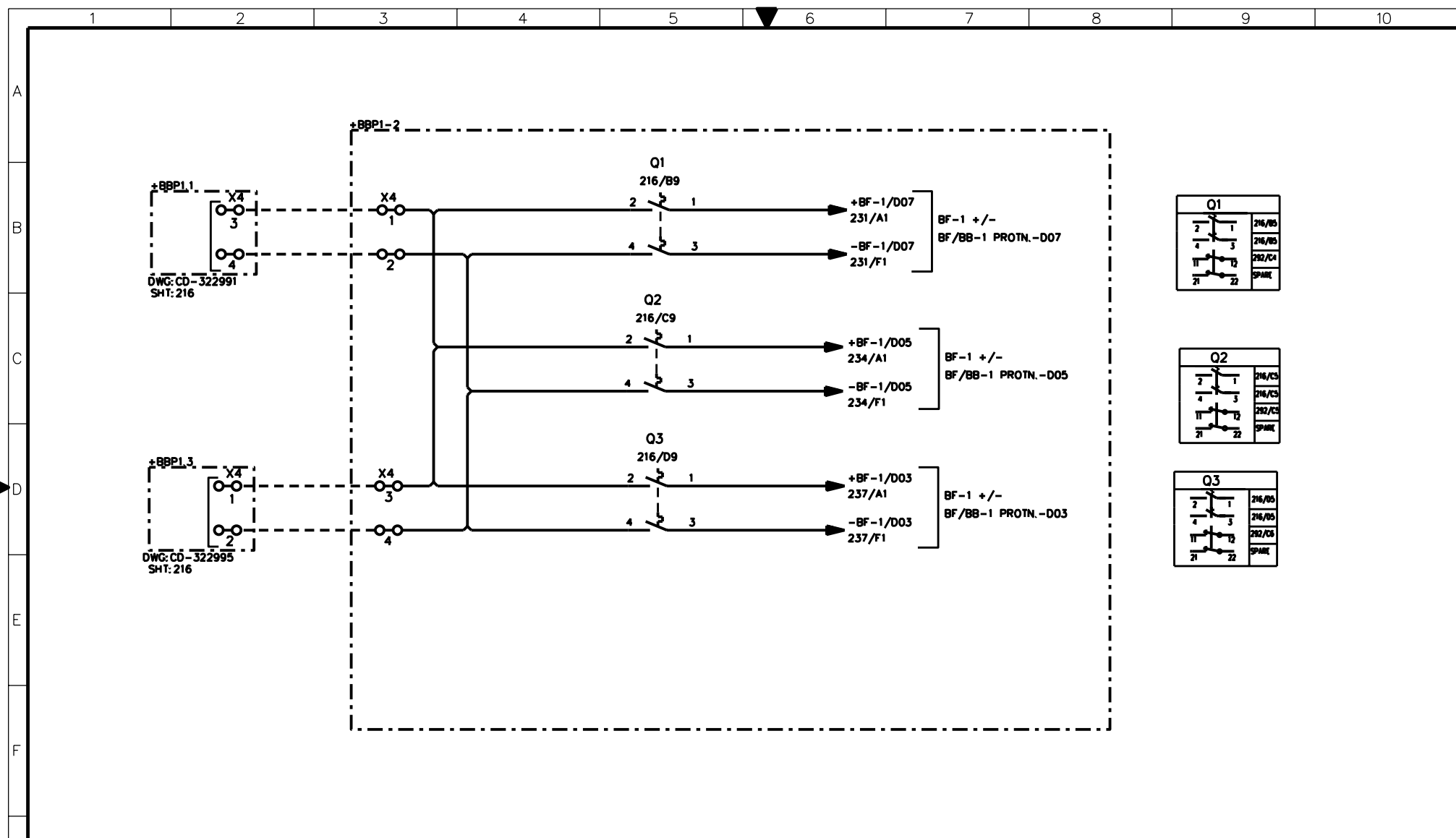
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			DRAWN BY RIZ CHECKED BY KVR				132KV BUSBAR PROTN.MAIN-1 BU PANEL +BBP1-2				National Grid sa			
			DATE STARTED 24.01.2013 DATE COMPLETED _____				S/S 8709 - 132/13.8KV IN AL-KHARJ CITY				INDEX			
			OPRG. DEPT. CTPD ENG. DEPT. AUT-PSAC				RIYADH SAUDI ARABIA				PLANT NO.			
REV. NO.			DATE		DESCRIPTION						DRAWING NUMBER			
01			13 49		FACTORY ASBUILT						SHEET NO.			
00			13 04		FOR APPROVAL						CONT.			
											REV. NO.			
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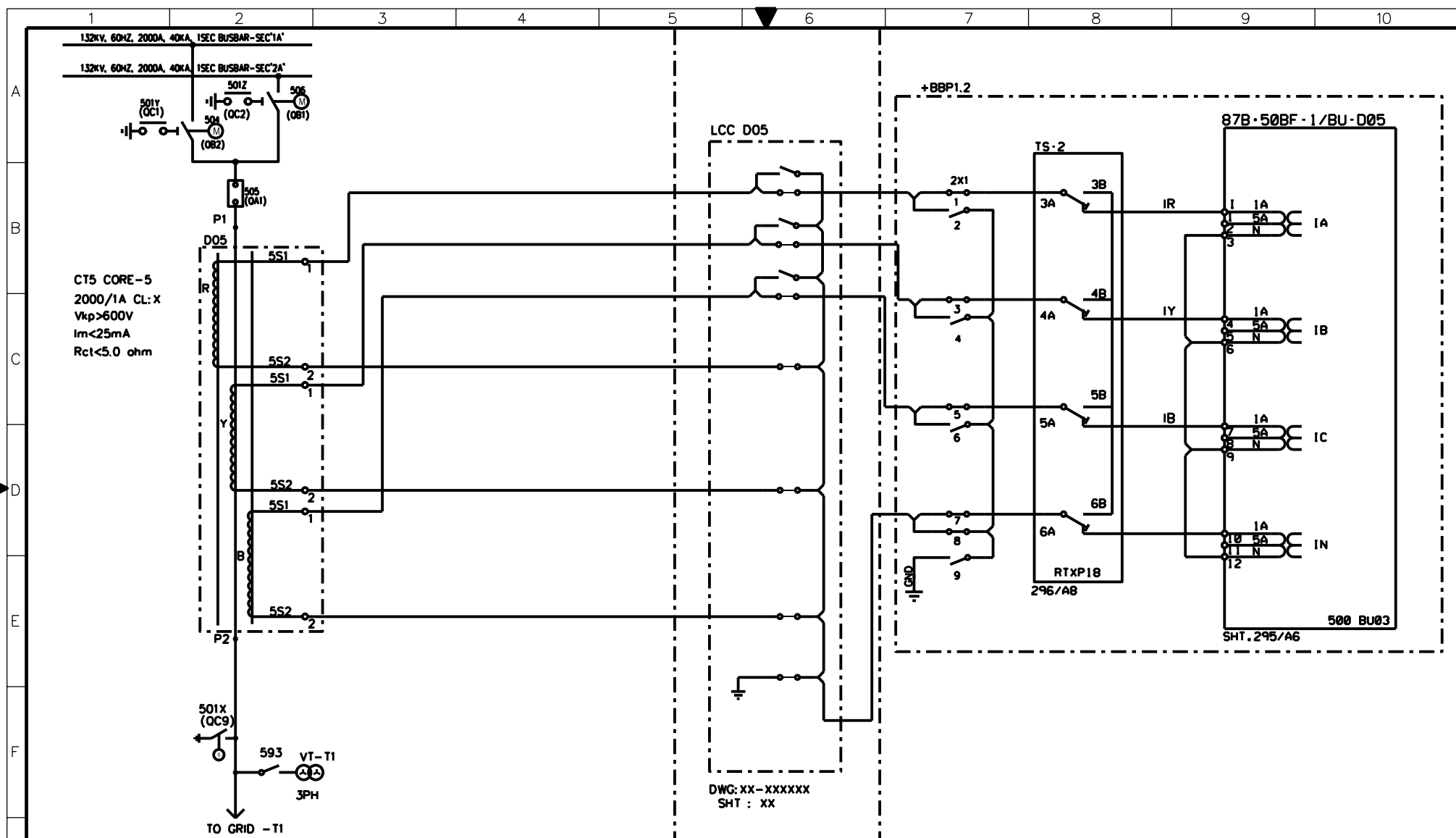


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AS-BUILT BY _____ DATE _____			CONTRACT NO. 11131113/00		JOB ORDER NO. S-13656		DC SUPPLY DISTRIBUTION			الشركة الوطنية لنقل الكهرباء		
DRAWN BY RIZ CHECKED BY KVR			DATE STARTED 24.01.2013 DATE COMPLETED _____			132KV BUSBAR PROTN. MAIN-1 BU PANEL +BBP1-2			National Grid sa			
DATE STARTED 24.01.2013 DATE COMPLETED _____			OPRG. DEPT. CTPD ENG. DEPT. AUT-PSAC			S/S 8709 - 132/13.8KV IN AL-KHARJ CITY			INDEX PLANT NO. DRAWING NUMBER SHEET NO. REV. NO.			
REV. NO. 01 DATE 13 49			DESCRIPTION FACTORY ASBUILT			Riyadh SAUDI ARABIA			- C421 CD-322993 216 221 01			
REV. NO. 00 DATE 13 04			DESCRIPTION FOR APPROVAL									



AS-BUILT BY _____ DATE _____ CONTRACT NO. **11131113/00** JOB ORDER NO. **S-13656**

01	13 49	FACTORY ASBUILT
00	13 04	FOR APPROVAL
REV. NO.	DATE	DESCRIPTION

DRAWN BY **RIZ** CHECKED BY **KVR**

DATE STARTED **24.01.2013** DATE COMPLETED _____

OPRG. DEPT. **CTPD** ENG. DEPT. **AUT-PSAC**

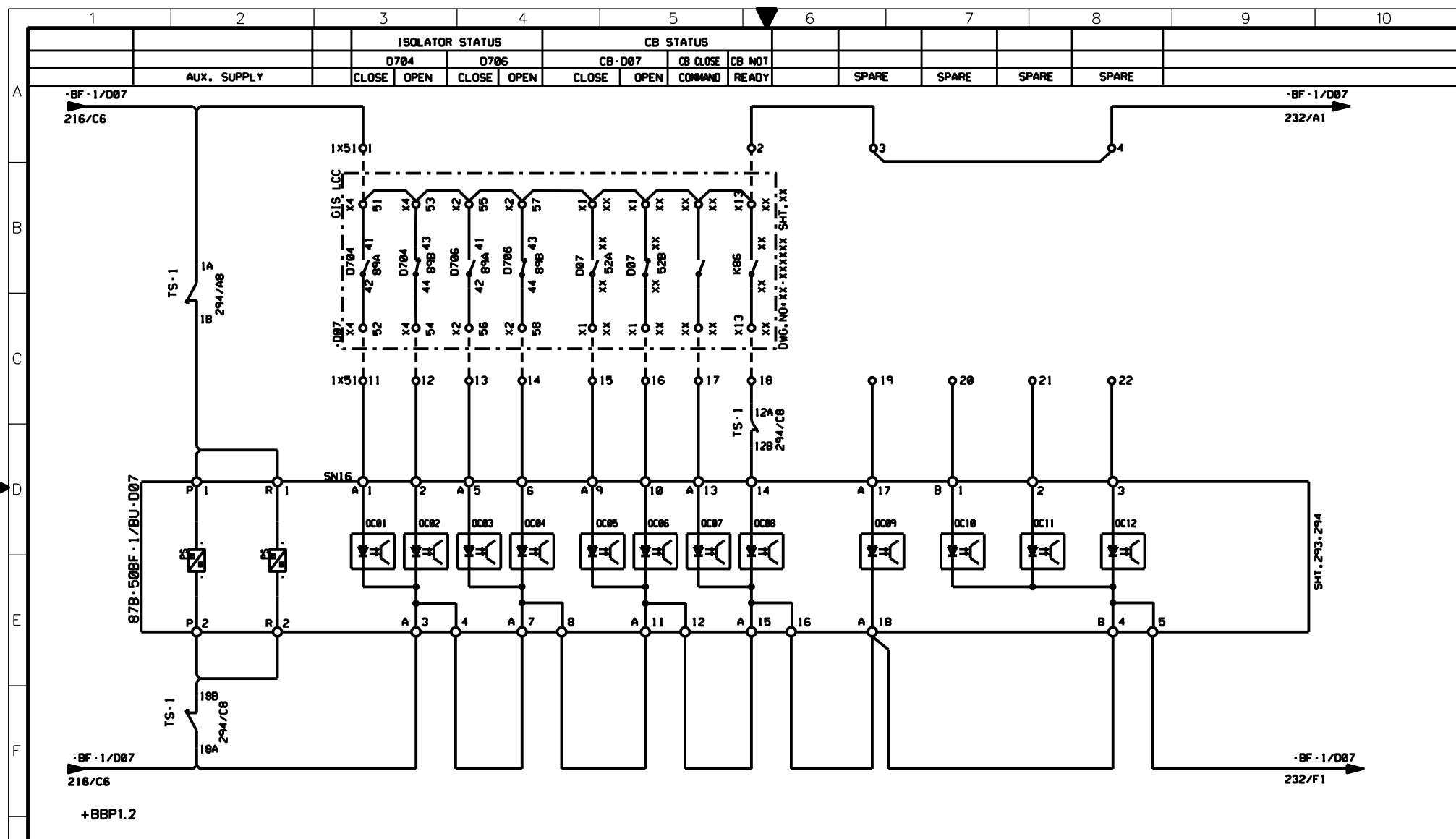
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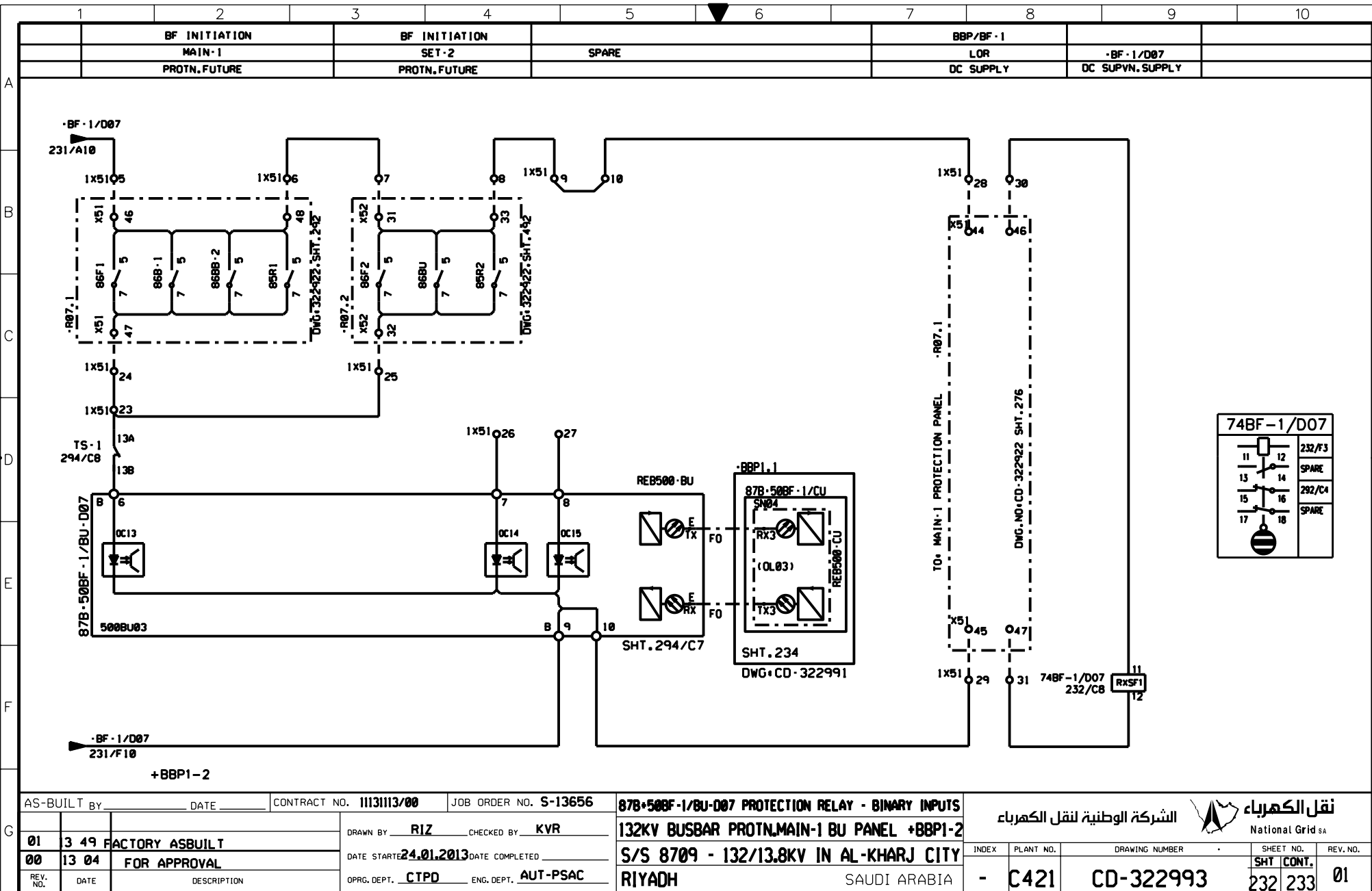
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R/YADH SAUDI ARABIA

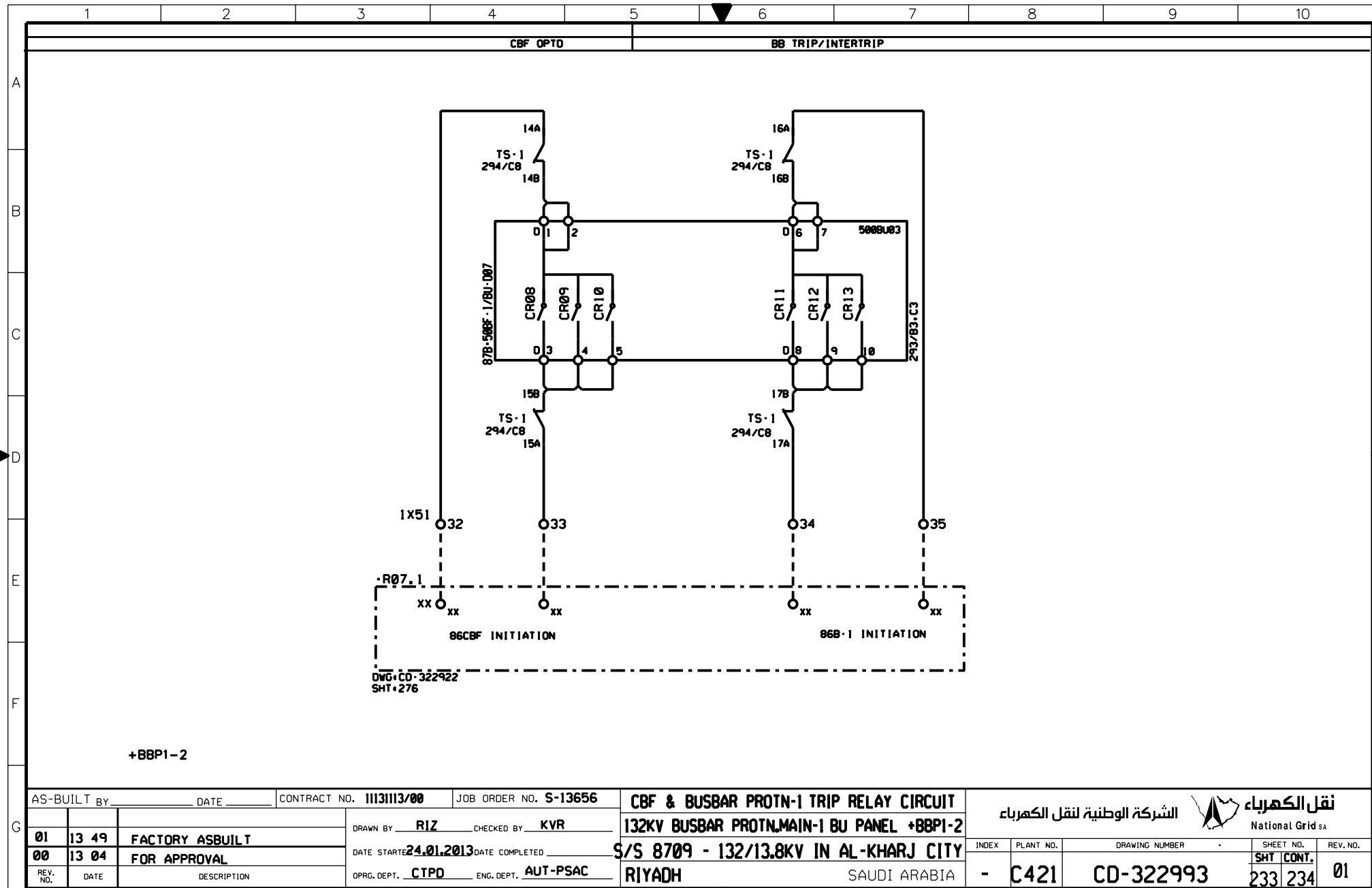
الشركة الوطنية لنقل الكهرباء		National Grid sa	
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-	C421	CD-322993	222/223
			REV. NO. 01



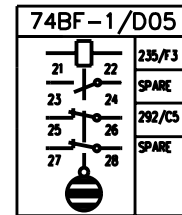
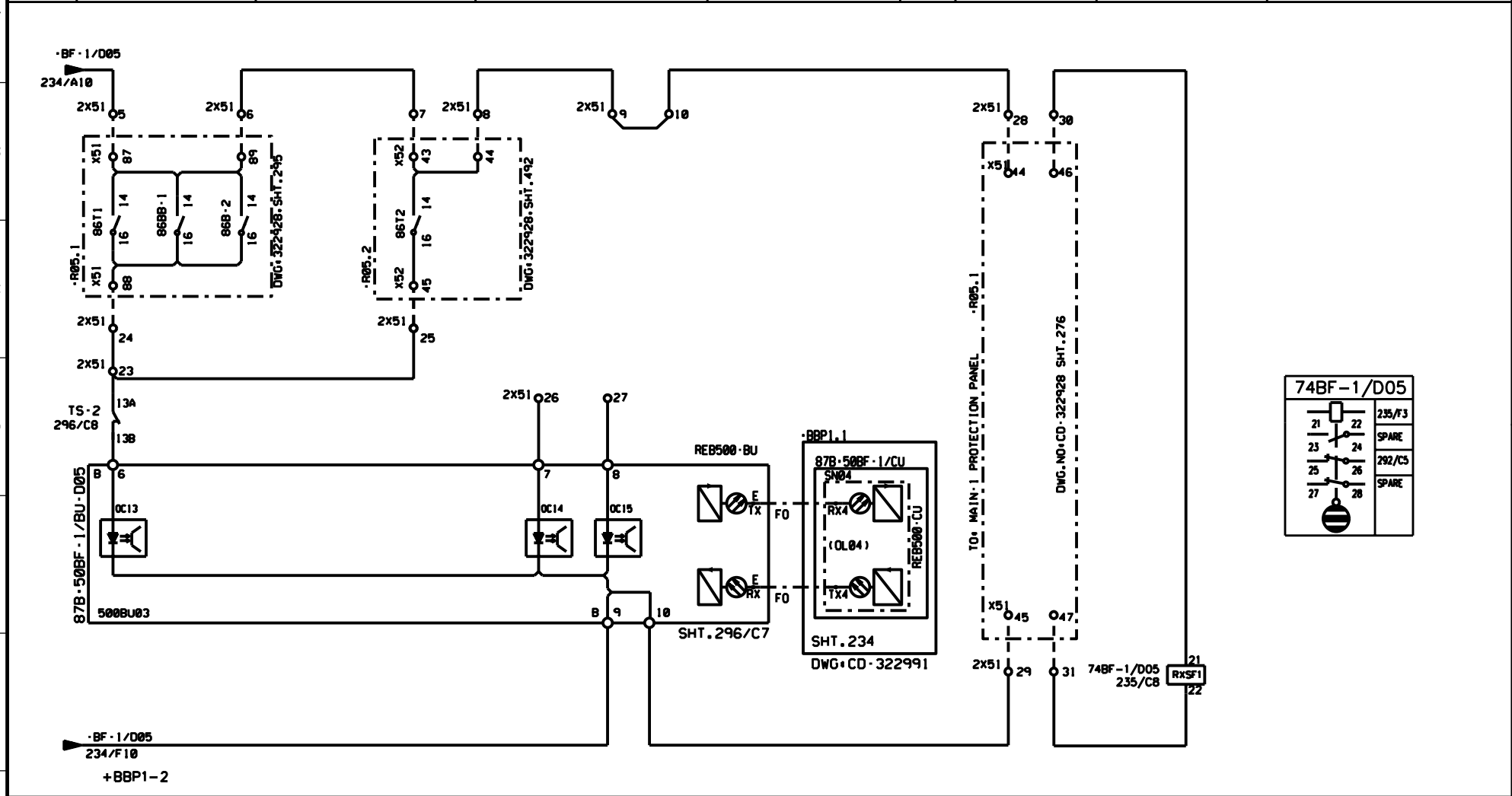
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01 13 49		FACTORY ASBUILT		DRAWN BY RIZ CHECKED BY KVR		132KV BUSBAR PROTN. MAIN-1 BU PANEL +BBP1-2		National Grid sa			
00 13 04		FOR APPROVAL		DATE STARTED 24.01.2013 DATE COMPLETED _____		S/S 8709 - 132/13.8KV IN AL-KHARJ CITY		INDEX		PLANT NO.	
REV. NO.		DATE		DESCRIPTION		OPRG. DEPT. CTPD ENG. DEPT. AUT-PSAC		DRAWING NUMBER		SHEET NO.	
						RIYADH SAUDI ARABIA		- C421		CD-322993	
										231 232	
										01	




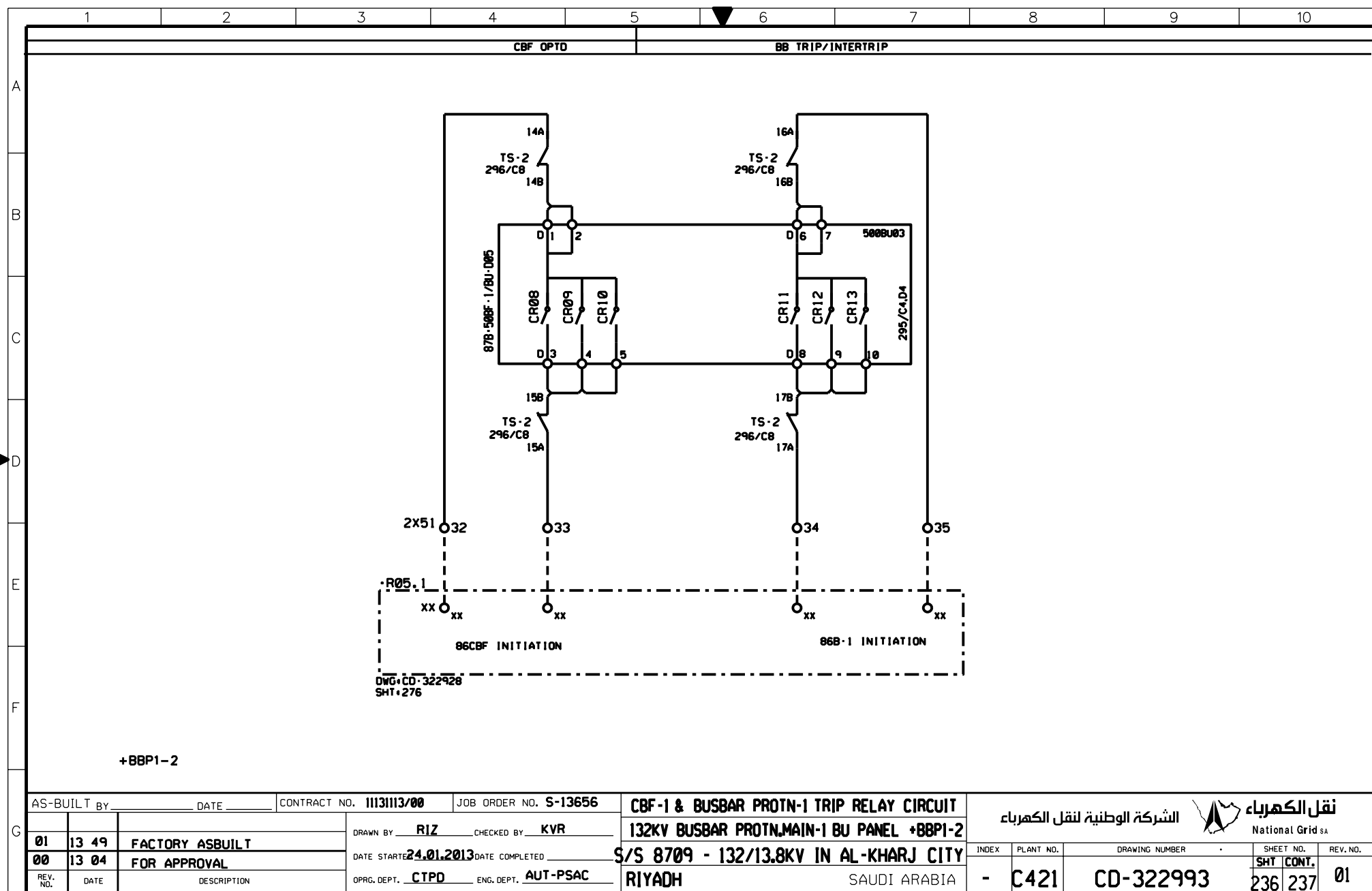
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1	2	3	4	5	6	7	8	9	10
BF INITIATION		BF INITIATION		SPARE		BBP/BF-1		-BF-1/D05	
MAIN-1		SET-2				LOR		DC SUPVN.SUPPLY	
PROTN.FUTURE		PROTN.FUTURE				DC SUPPLY			



AS-BUILT BY _____ DATE _____			CONTRACT NO. 1113113/00			JOB ORDER NO. S-13656			87B-50BF-1/BU-D05 PROTECTION RELAY - BINARY INPUTS			الشركة الوطنية لنقل الكهرباء			 نقل الكهرباء		
						DRAWN BY RIZ CHECKED BY KVR			132KV BUSBAR PROTN.MAIN-1 BU PANEL +BBP1-2			National Grid sa					
01 13 49			FACTORY ASBUILT			DATE STARTED 24.01.2013 DATE COMPLETED _____			S/S 8709 - 132/13.8KV IN AL-KHARJ CITY			INDEX			PLANT NO.		
00 13 04			FOR APPROVAL						RIYADH SAUDI ARABIA			DRAWING NUMBER			SHEET NO.		
REV. NO.			DATE			DESCRIPTION			PRGR. DEPT. CTPD ENG. DEPT. AUT-PSAC			- C421			CD-322993		
												SHT CONT.			REV. NO.		
												235 236			01		



AS-BUILT BY _____ DATE _____

CONTRACT NO. 11131113/00

JOB ORDER NO. S-13656

0113 49

FACTORY ASBUILT

0013 04

FOR APPROVAL

REV. NO.

DATE

DESCRIPTION

DRAWN BY RIZ

CHECKED BY KVR

DATE STARTED 24.01.2013

DATE COMPLETED _____

OPRG. DEPT. CTPD

ENG. DEPT. AUT-PSAC

CBF-1 & BUSBAR PROTN-1 TRIP RELAY CIRCUIT

132KV BUSBAR PROTN.MAIN-1 BU PANEL +BBP1-2

S/S 8709 - 132/13.8KV IN AL-KHARJ CITY

RIYADH SAUDI ARABIA

الشركة الوطنية لنقل الكهرباء

National Grid sa

INDEX

PLANT NO.

DRAWING NUMBER

SHEET NO.

REV. NO.

-

C421

CD-322993

236237

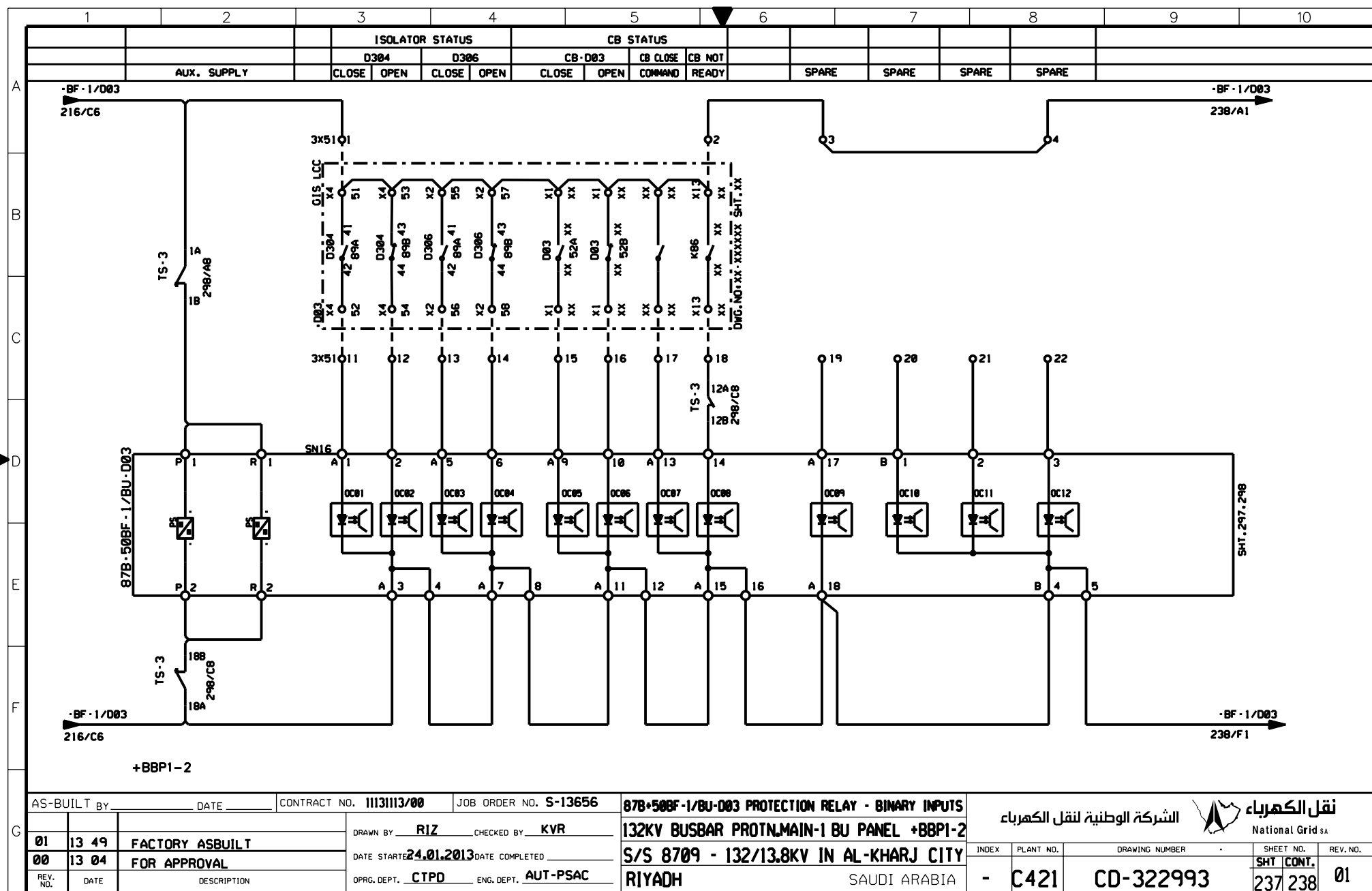
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DMS

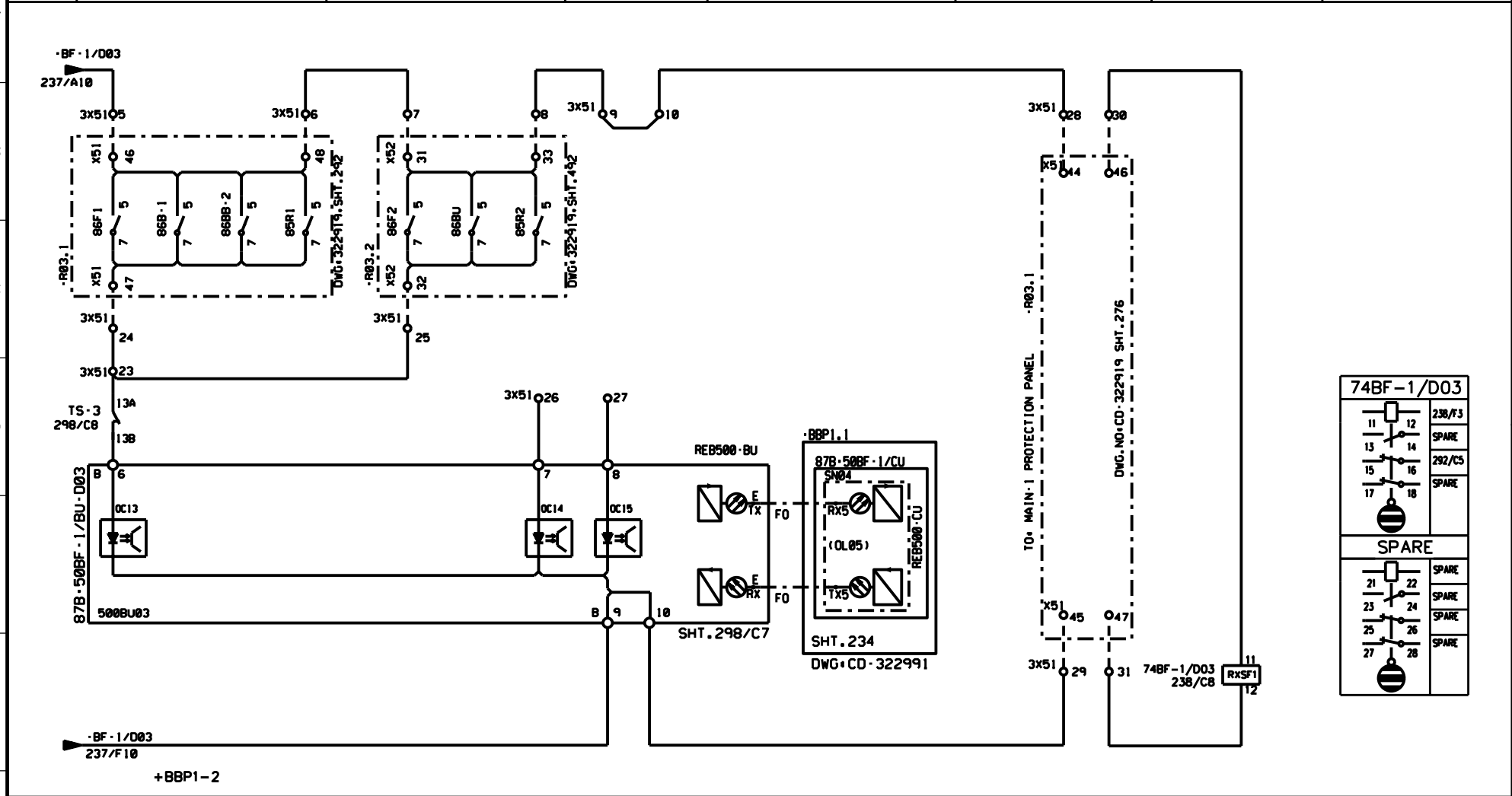
VECTOR

NGD200



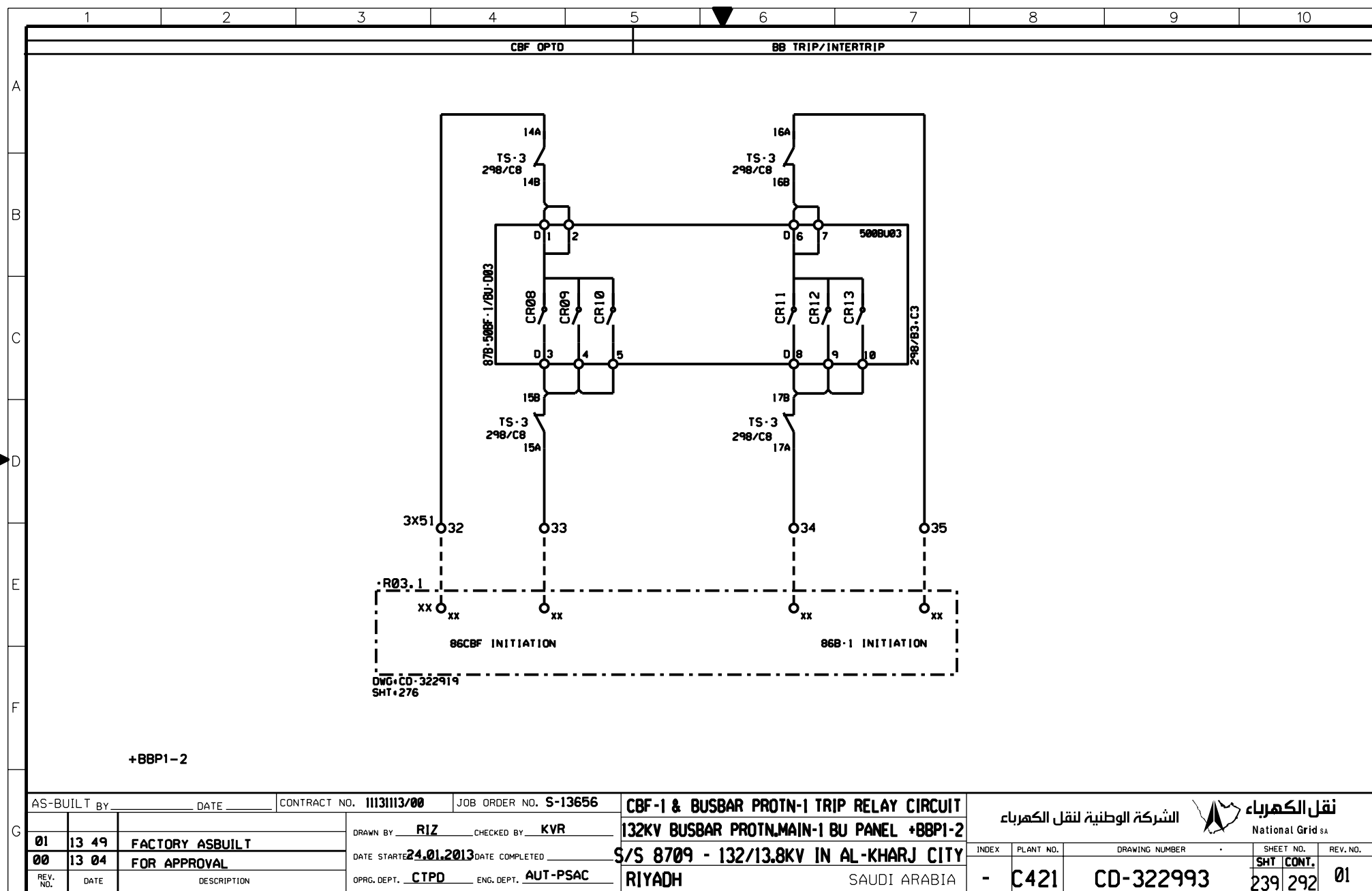
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BF INITIATION		BF INITIATION		SPARE		BBP/BF-1		-BF-1/D03	
MAIN-1		SET-2		SPARE		LOR		-BF-1/D03	
PROTN.FUTURE		PROTN.FUTURE		SPARE		DC SUPPLY		DC SUPVN. SUPPLY	



74BF-1/D03	
11	12
13	14
15	16
17	18
SPARE	
21	22
23	24
25	26
27	28
SPARE	

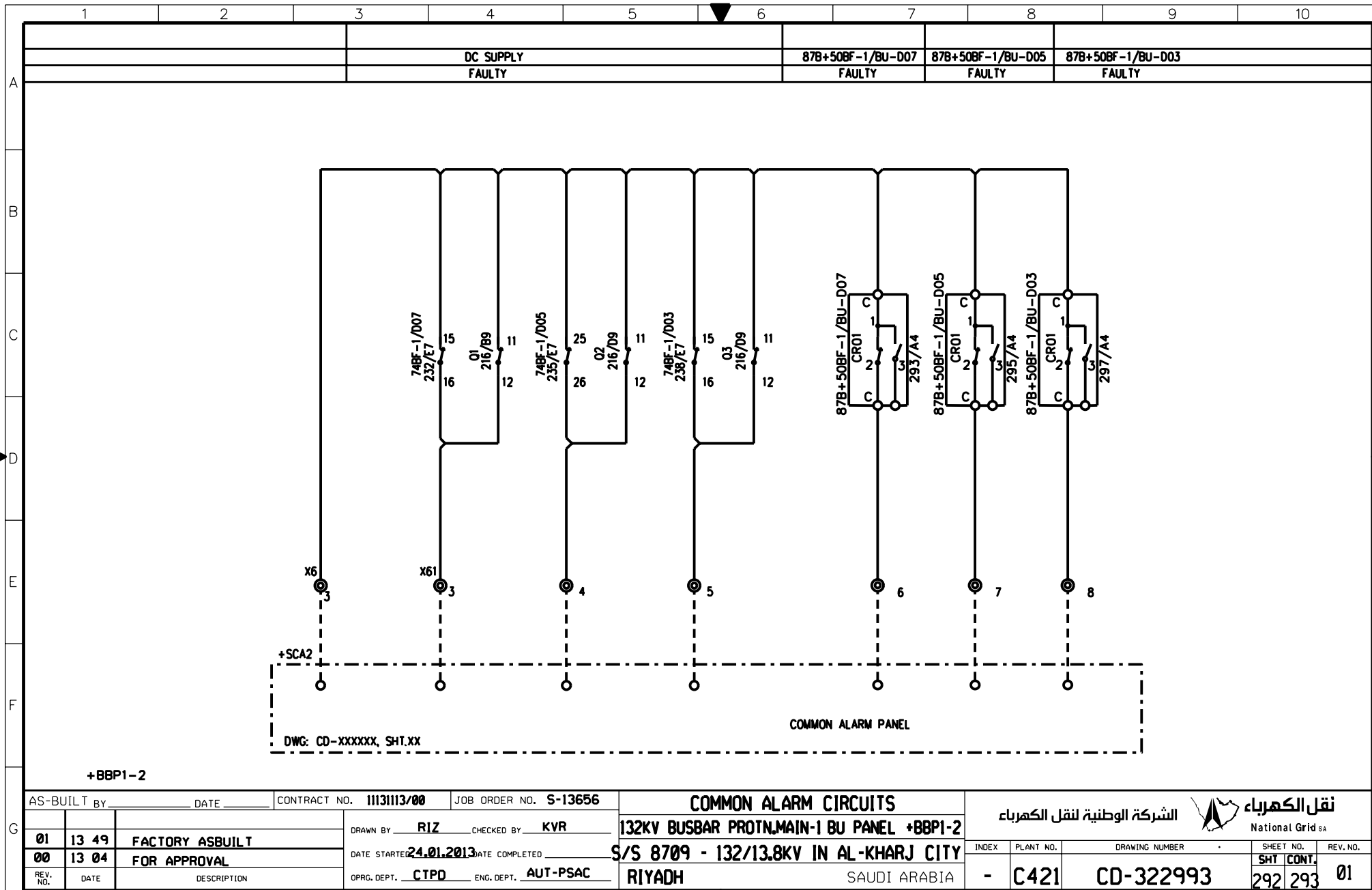
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01		13 49		FACTORY ASBUILT		DRAWN BY RIZ CHECKED BY KVR		132KV BUSBAR PROTN.MAIN-1 BU PANEL +BBP1-2		INDEX		PLANT NO.		DRAWING NUMBER		SHEET NO.		REV. NO.	
00		13 04		FOR APPROVAL		DATE STARTED 24.01.2013 DATE COMPLETED		S/S 8709 - 132/13.8KV IN AL-KHARJ CITY		-		C421		CD-322993		SHT CONT.		238 239	
REV. NO.		DATE		DESCRIPTION		OPRG. DEPT. CTPD ENG. DEPT. AUT-PSAC		RIYADH SAUDI ARABIA										01	

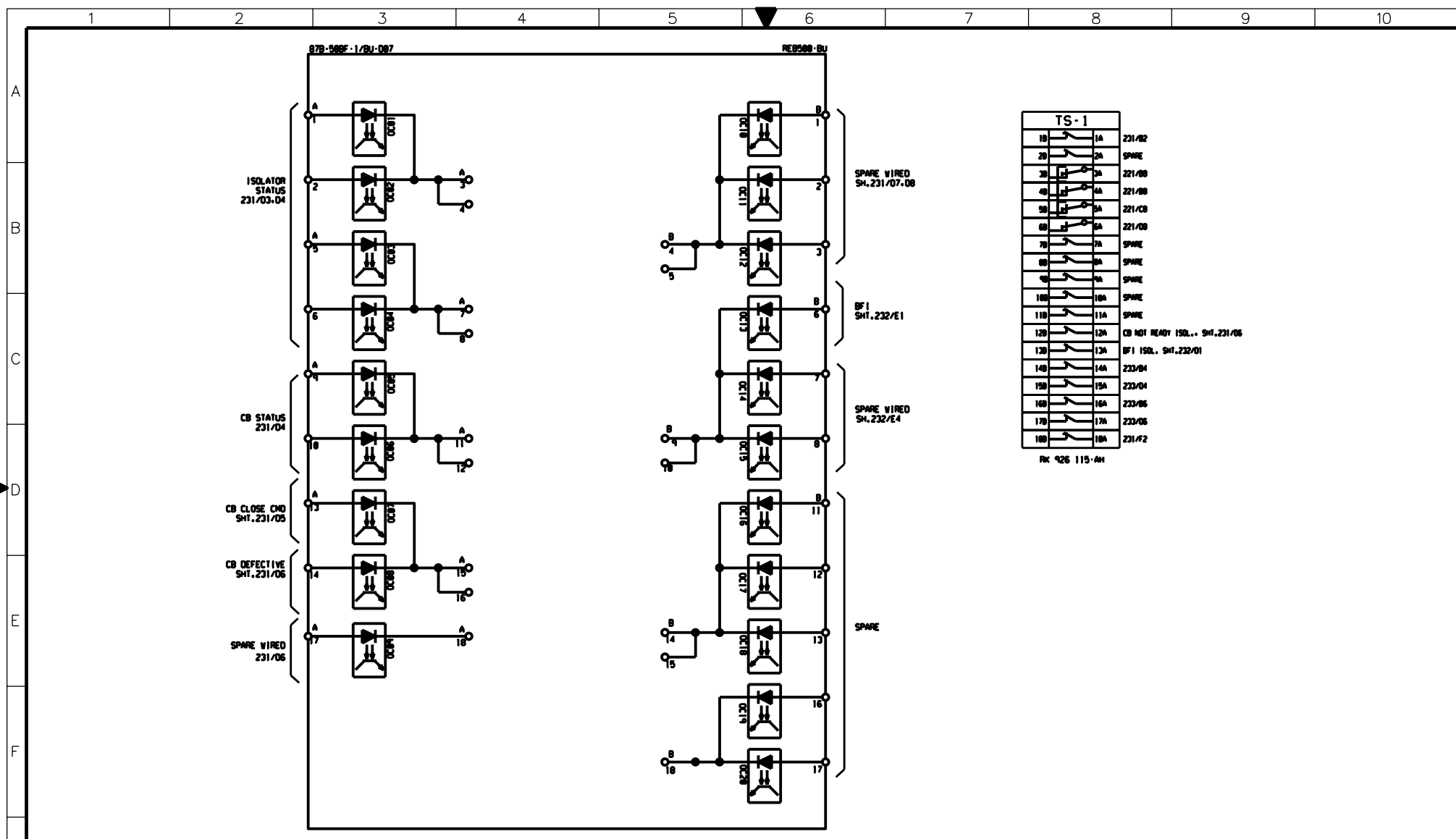


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AS-BUILT BY _____ DATE _____			CONTRACT NO. 11131113/00		JOB ORDER NO. S-13656		CBF-1 & BUSBAR PROTN-1 TRIP RELAY CIRCUIT		الشركة الوطنية لنقل الكهرباء									
					DRAWN BY RIZ CHECKED BY KVR		132KV BUSBAR PROTN.MAIN-1 BU PANEL +BBP1-2		National Grid sa									
01 13 49			FACTORY ASBUILT		DATE STARTED 24.01.2013 DATE COMPLETED _____		S/S 8709 - 132/13.8KV IN AL-KHARJ CITY		INDEX		PLANT NO.		DRAWING NUMBER		SHEET NO.		REV. NO.	
00 13 04			FOR APPROVAL		OPRG. DEPT. CTPD ENG. DEPT. AUT-PSAC		RIYADH SAUDI ARABIA		-		C421		CD-322993		SHT CONT.		01	
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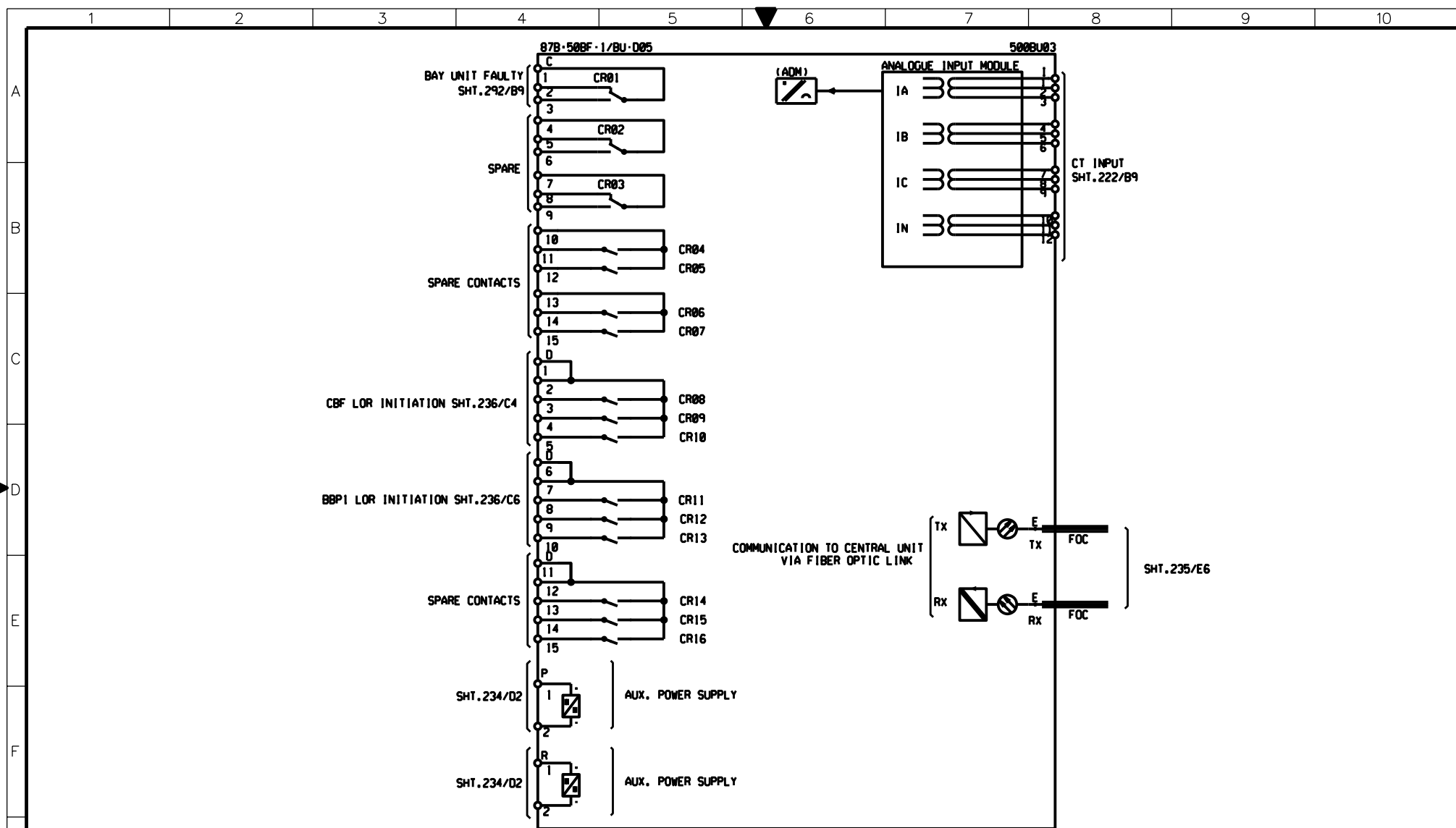




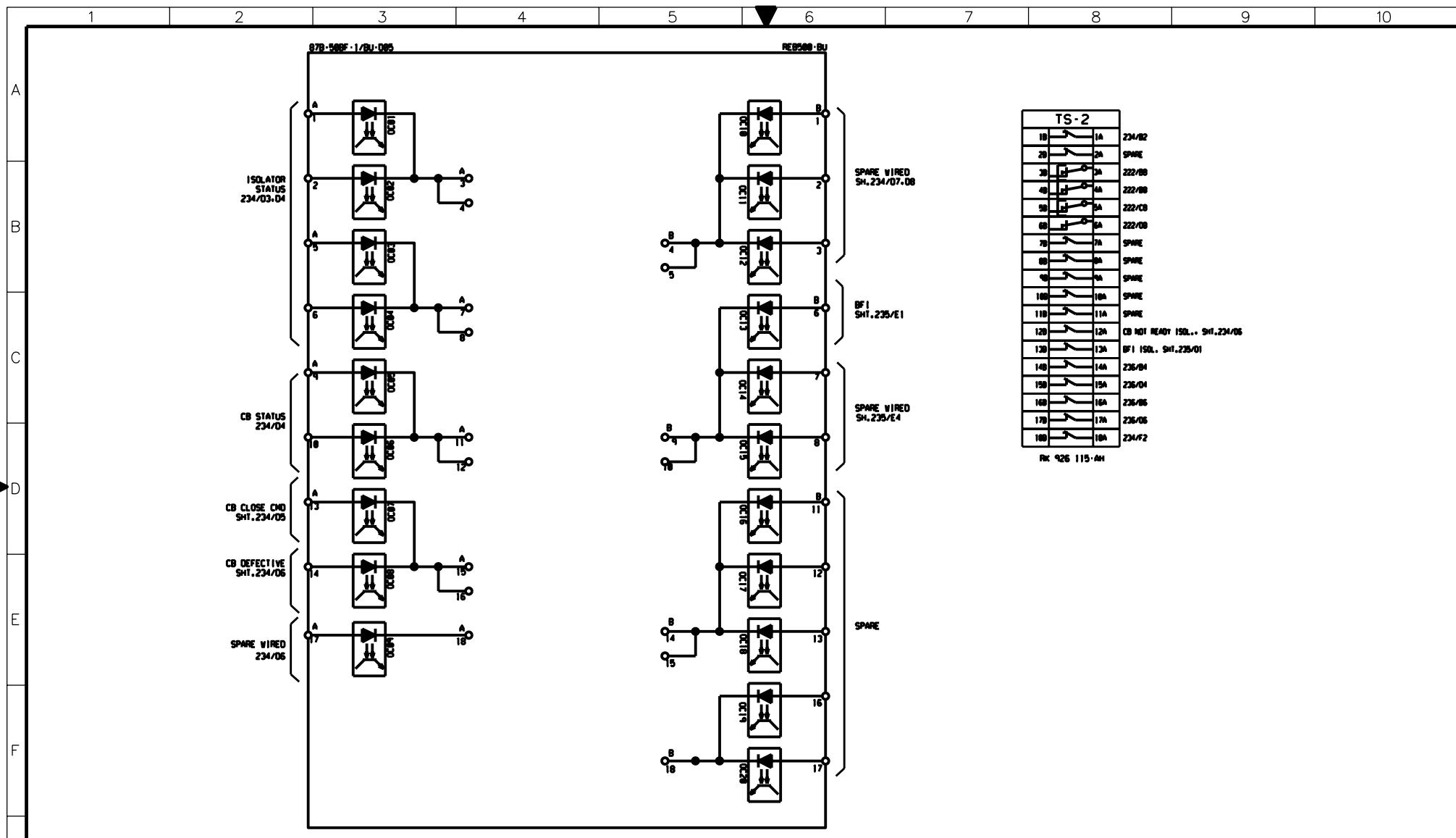
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20	2A	SPARE
30	3A	231/08
40	4A	231/08
50	5A	231/08
60	6A	231/08
70	7A	SPARE
80	8A	SPARE
90	9A	SPARE
100	10A	SPARE
110	11A	SPARE
120	12A	CB NOT READY ISOL... SH1.231/06
130	13A	BF 1 ISOL... SH1.232/01
140	14A	233/04
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180	18A	231/72

RK 926 115-AM

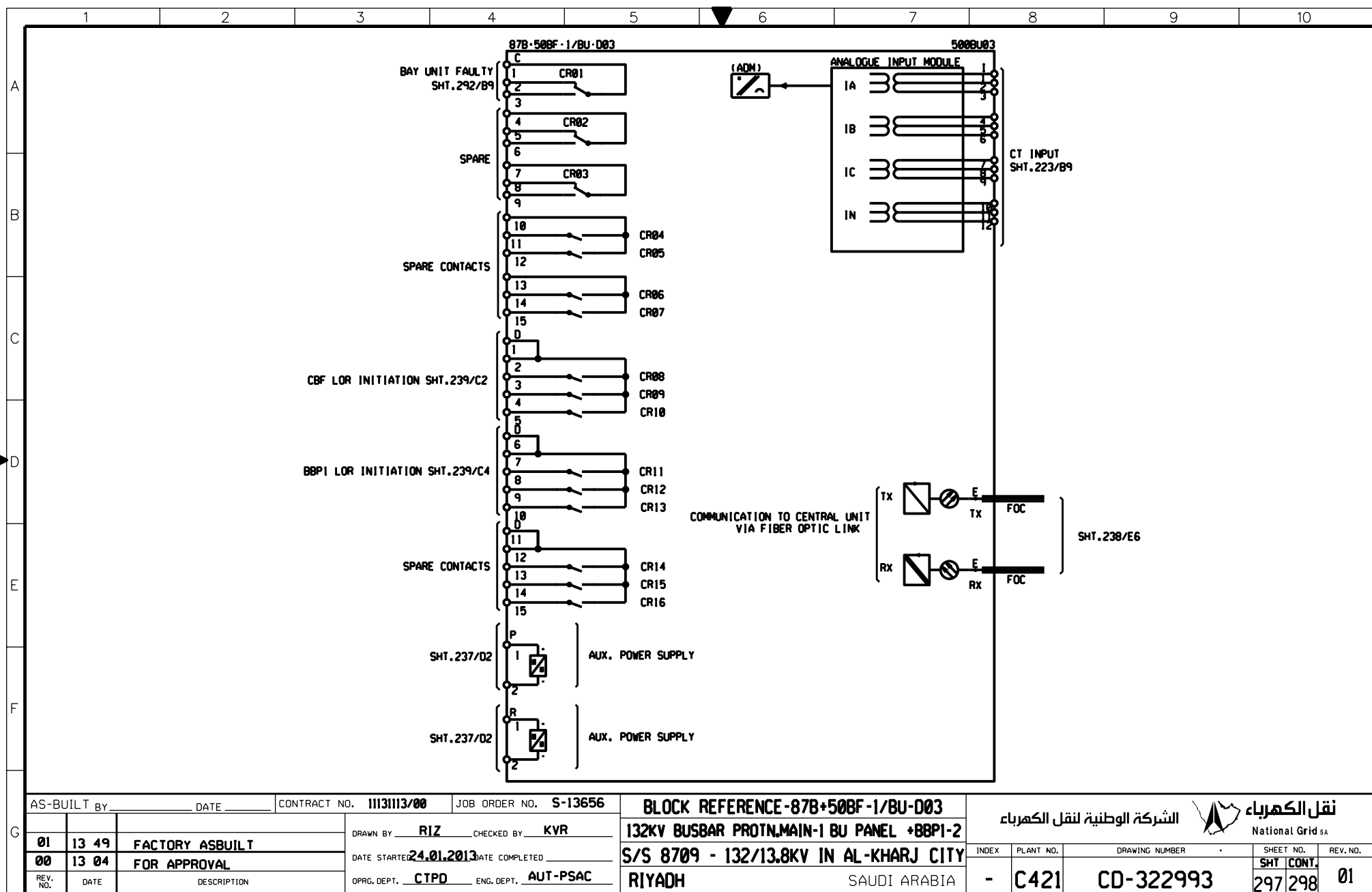
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DRAWN BY RIZ CHECKED BY KVR		DATE STARTED 24.01.2013 DATE COMPLETED _____		132KV BUSBAR PROTN.MAIN-1 BU PANEL +BBP1-2		National Grid sa				
DESCRIPTION FACTORY ASBUILT		OPRG. DEPT. CTPD ENG. DEPT. AUT-PSAC		S/S 8709 - 132/13.8KV IN AL-KHARJ CITY		INDEX	PLANT NO.	DRAWING NUMBER	SHEET NO.	REV. NO.
REV. NO.	DATE			RIYADH SAUDI ARABIA		-	C421	CD-322993	294 295	01

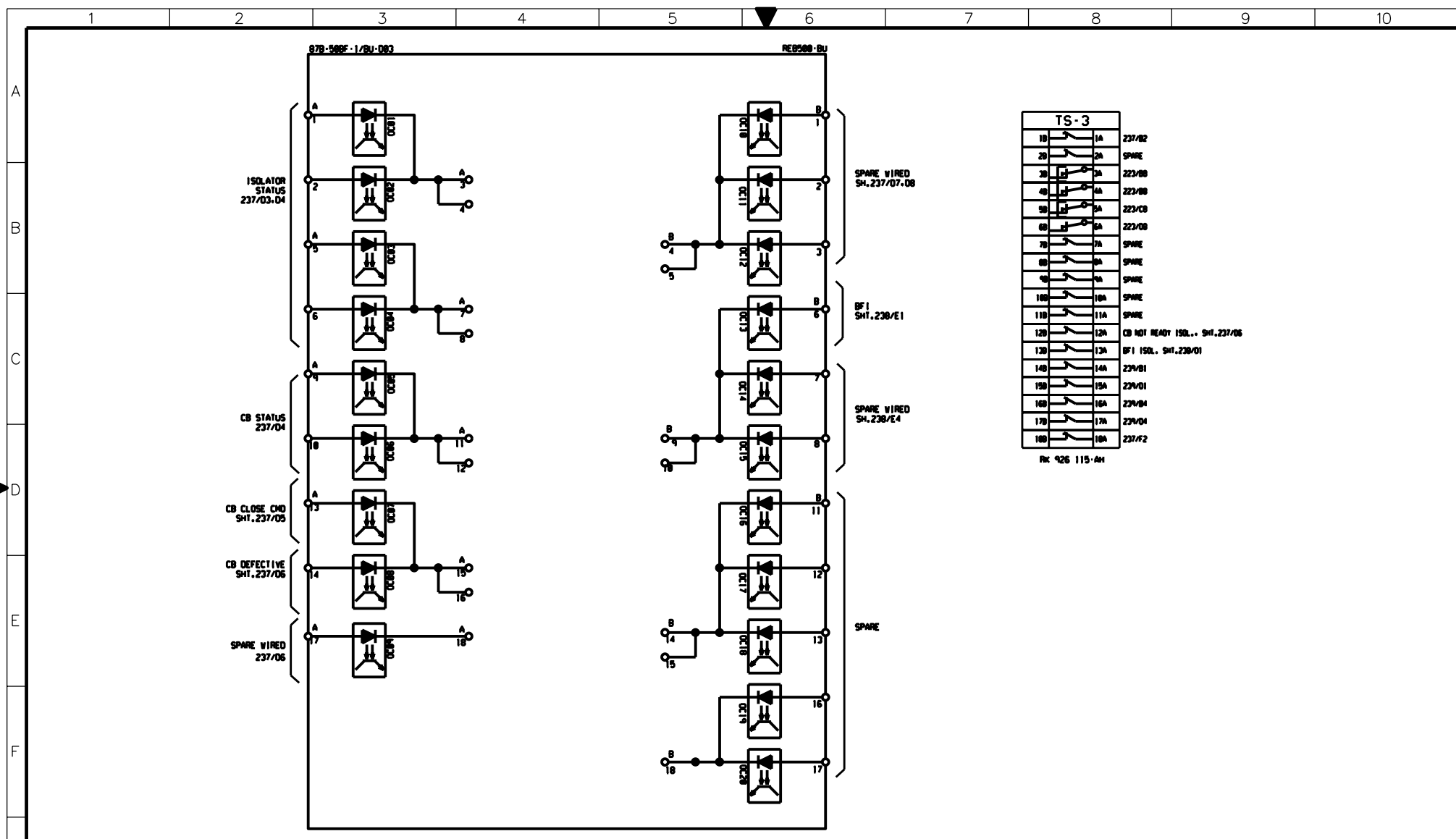


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01	13 49	FACTORY ASBUILT	DRAWN BY RIZ CHECKED BY KVR		132KV BUSBAR PROTN.MAIN-1 BU PANEL +BBP1-2		INDEX	PLANT NO.	DRAWING NUMBER	SHEET NO.	REV. NO.		
00	13 04	FOR APPROVAL	DATE STARTED 24.01.2013 DATE COMPLETED _____		S/S 8709 - 132/13.8KV IN AL-KHARJ CITY					SHT CONT.			
REV. NO.	DATE	DESCRIPTION	OPRG. DEPT. CTPD ENG. DEPT. AUT-PSAC		RIYADH SAUDI ARABIA		-	C421	CD-322993	295	296	01	



AS-BUILT BY _____ DATE _____		CONTRACT NO. 1113113/00	JOB ORDER NO. S-13656	BLOCK REFERENCE-87B+50BF-2/BU-D05		الشركة الوطنية لنقل الكهرباء		نقل الكهرباء	
DRAWN BY RIZ CHECKED BY KVR		DATE STARTED 24.01.2013 DATE COMPLETED _____		132KV BUSBAR PROTN.MAIN-1 BU PANEL +BBP1-2		National Grid sa			
FOR APPROVAL		OPRG. DEPT. CTPD ENG. DEPT. AUT-PSAC		S/S 8709 - 132/13.8KV IN AL-KHARJ CITY		INDEX		PLANT NO.	
REV. NO. 01 DATE 13 49		DESCRIPTION FACTORY ASBUILT		RIYADH SAUDI ARABIA		DRAWING NUMBER CD-322993		SHEET NO. 296 CONT. 297	
						- C421		REV. NO. 01	





TS-3		
10	1A	237/02
20	2A	SPARE
30	3A	223/08
40	4A	223/08
50	5A	223/08
60	6A	223/08
70	7A	SPARE
80	8A	SPARE
90	9A	SPARE
100	10A	SPARE
110	11A	SPARE
120	12A	CB NOT READY ISOL... SH1.237/06
130	13A	BF1 ISOL. SH1.238/01
140	14A	237/01
150	15A	237/01
160	16A	237/04
170	17A	237/04
180	18A	237/02

RK 926 115-AM

AS-BUILT BY _____ DATE _____		CONTRACT NO. 1113113/00	JOB ORDER NO. S-13656	BLOCK REFERENCE-87B+50BF-1/BU-D03		نقل الكهرباء الشركة الوطنية لنقل الكهرباء National Grid sa	
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REV. NO.	DATE	DESCRIPTION		OPRG. DEPT. CTPD	ENG. DEPT. AUT-PSAC	INDEX	PLANT NO.
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							CD-322993
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